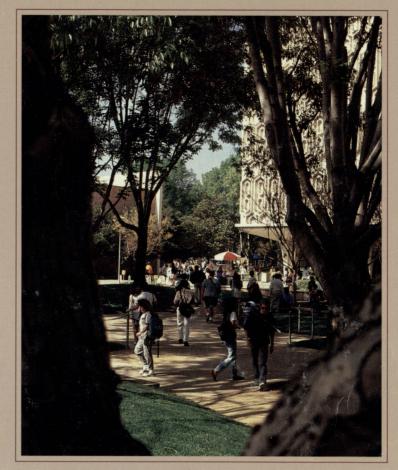
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Catalog

CALIFORNIA STATE UNIVERSITY

F U L L E R T O N

1991 - 1993 University Catalog

Available from: Titan Shops Bookstore on the University campus or by mail order to:

Titan Shops CSU Fullerton 2875 Orange/Olive Road Orange, CA 92665

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University Address

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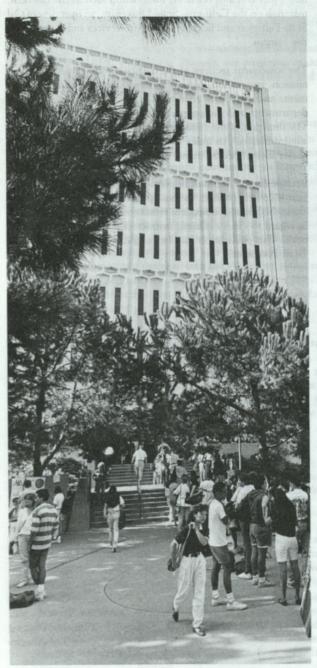
California State University, Fullerton P.O. Box 34080 Fullerton, CA 92634-9480 Telephone information (714) 773-2011

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California State University, Fullerton



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Accrediting Council on Education in Journalism and Mass
Communications

American Assembly of Collegiate Schools of Business

American Chemical Society

American Speech-Language-Hearing Association

Commission on Teacher Credentialing

Computer Sciences Accreditation Commission

National Association for Foreign Student Affairs

National Association of Schools of Art and Design

National Association of Schools of Dance

National Association of Schools of Music

National Association of Schools of Public Affairs and

National Association of Schools of Theatre

National Athletic Trainers Association

National Council for Accreditation of Teacher Education

National League for Nursing

Southern California Consortium on International Studies

Universities Field Staff International

Western Association of Graduate Schools

Western Association of Schools and Colleges

Nondiscrimination Policy

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The California State University does not discriminate on the basis of sex in the educational programs or activities it conducts. Title IX of the Education Amendments of 1972, as amended, and the administrative regulations adopted thereunder prohibit discrimination on the basis of sex in education programs and activities operated by California State University, Fullerton. Such programs and activities include admission of students and employment. Inquiries concerning the application of Title IX to programs and activities of California State University, Fullerton may be referred to Rosamaría Gómez-Amaro, the campus officer assigned the administrative responsibility of reviewing such matters or to the Regional Director of the Office of Civil Rights, Region 9, 221 Main Street, 10th Floor, San Francisco, CA 94105.

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The California State University does not discriminate on the basis of handicap and is in compliance with Section 504 of the Rehabilitation Act of 1973, as amended, and the regulations adopted thereunder.

More specifically, The California State University does not discriminate in admission or access to, or treatment or employment in, its programs and activities. Rosamaría Gómez-Amaro, Director of Affirmative Action, has been designated to coordinate the efforts of California State University, Fullerton to comply with the act and its implementing regulations. Inquiries concerning compliance may be addressed to this person at California State University, Fullerton, Langsdorf Hall 101, Fullerton, CA 92634, (714) 773-3951.

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The California State University complies with the requirements of Title VI of the Civil Rights Act of 1964 and the regulations adopted thereunder. No person shall, on the grounds of race, color or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program of The California State University.

This Catalog

Within this catalog may be found general academic and administrative information as well as specific descriptions of the departments, their majors and the courses offered in each. The first major part contains orienting information such as the calendar, materials on the California State University, an overview of Cal State Fullerton and facts about student services and activities on the campus.

The subsequent sections of the catalog are concerned with: admission, registration, records and regulations; academic advisement; and university courses. The next sections describe the departments and the programs of study and courses they offer. The final part of the catalog contains a listing of the faculty and administration. An index may be found at the end to help the reader locate specific items.

Because this catalog must be prepared well ahead of the academic year it covers, changes in some programs and rules occur. The class schedule and subsequent errata sheets are the final authority in regard to classes offered, instructors and revisions of regulations. This publication may be bought for a small fee from the Titan Bookstore.

Credits

The California State University, Fullerton, catalog is prepared by the Office of Academic, Graduate, and International Programs; Dennis F. Berg, Associate Vice President for Academic Programs; William W. Haddad, Assistant Vice President for Graduate and International Programs.

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Additional photographs appear through the courtesy of Patrick O'Donnell, the Office of Public Affairs, the Fall 1990 Communications 319 students, and select department faculty.

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	Department Chairs
	Program Coordinators
Typesetting	Keyboard Network, Inc.
Printing	Sinclair Printing
	Los Angeles

President's Message

Welcome to California State University, Fullerton. The university is here to prepare students to meet the challenges of their future chosen careers. Our undergraduate and postbaccalaureate programs are designed to help students reach their optimum personal and professional development. We are a caring campus that provides an environment whereby our students have opportunities for learning, growth, service to society, and involvement in the university community. Through our programs, students will learn to be concerned with the pursuit of excellence and the importance of quality of life issues.

Cal State Fullerton has awarded more than 85,000 degrees since classes began in 1959, and we have played an integral role in the lives of students, almuni and the community at large. Our university provides the Orange County community, its surrounding regions, the state and the nation with the trained professionals in business, computer science, engineering, health, science and teaching, the arts and other service sectors with growing numbers of well-educated personnel. By providing access to professional careers for the broadest cross-section of Americans, including women and members of minority and immigrant groups, our university represents a pathway into the American mainstream for individuals and families who otherwise would not have the opportunity to make this step, thus helping to ensure the stability of our free economy and our democratic government.

As Orange County has grown and matured, so has the university. Enrollment now stands at approximately 25,000 students, and the faculty is made up of 1,500 distinguished professionals, who are dedicated to excellence in teaching, scholarly and creative activity, and service to the university and the community. Our faculty members are actively involved in giving each student the finest academic experience possible.

We are proud that in the university's relatively short history our curriculum has grown to include 45 undergraduate majors and 41 graduate degrees, plus a variety of credential and certificate programs.

The university tradition extends from our quality academic offerings, our cultural diversity, our extensive outreach programs to the personal, first-hand interaction with professors whose diversity and backgrounds provide unsurpassed enrichment for a total university education. Our students can participate in or be spectators of intellectual, cultural and athletics programs and events. By the time students graduate, they will have received one of the finest educations possible. They will be prepared for continued personal and professional development throughout their lives;



they will be ambassadors of goodwill for the university and our surrounding communities will benefit from their contributions to society.

Cal State Fullerton is a stimulating and challenging place to be. As you become familiar and involved in the campus community, you will discover exciting opportunities to grow and contribute. I invite you to participate fully.

milton a. Hordon

Milton A. Gordon

President

California State University, Fullerton

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... Holitley break — Campus closed. Thursday Semester en

1991-92 Academic Calendar

Please note: This academic calendar is not intended to be construed as an employee work calendar.

SUMN	MER SESSION 1991		1992
June 3 Monday	Instruction begins; registration and	January 1, Wednesday	New Year's Day — Campus closed.
July 4, Thursday	classes. Independence Day — Campus closed.	January 2, Thursday January 2 & 3, Thursday-	Winter recess ends.
August 1,	Last and the state of		Semester ends; grade reports due.
Thursday	Initial period for filing applications for admission to the spring semester 1992	INTE	ERSESSION - 1992
August 23,	begins.	January 6, Monday	Intersession begins.
Friday	Instruction ends.	January 20, Monday	Martin Luther King, Jr. Day —
	SEMESTER 1991		Campus closed.
August 26, Monday		January 31, Friday	
September 2,	orientation begins.	SPRIN	IG SEMESTER 1992
Monday September 3,	Labor Day — Campus closed.	January 27, Monday	Semester begins; advisement and
	Instruction begins.	February 3,	orientation begins.
September 9, Monday	Admission day — Campus open.		Instruction begins.
September 9, Monday	Rosh Hashanah — Campus open.	Wednesday	Lincoln's Birthday — Campus open.
September 18,	Yom Kippur — Campus open.	February 17, Monday	Washington's Birthday — Campus closed.
	Columbus Day — Campus open.	April 13, Monday	Spring recess begins.
November 4, Monday	Initial period for filing applications for admission to the fall semester 1992	April 20, Monday May 22,	Instruction resumes.
	begins.	Friday	Last day of classes.
	Veterans Day — Campus open.	May 25, Monday	Examination preparation day.
November 28-29, Thursday-Friday .	Thanksgiving recess — Campus closed.	May 25, Monday	Memorial Day — Campus closed.
December 13, Friday	Last day of classes.	May 26-29,	Semester examinations.
December 16, Monday	Examination preparation day.	May 30-31,	Commencement exercises.
December 16-20, Monday-Friday	Semester examinations.	June 1-4, Monday-	
December 23, Monday	Winter recess begins.	Thursday	Evaluation days; grade reports due.
	Holiday break — Campus closed.	June 4, Thursday	Semester ends.

1992-93 Academic Calendar

SUM	MER SESSION 1992	1993
June 1,		January 1,
Monday	Instruction begins; registration and	Friday New Year's Day — Campus closed.
	classes.	January 4, Today, all 20 campuses have the ritle "university
July 3,		Monday Winter recess ends.
Friday	Independence Day observed — Campus	January 4, State - San Jose State University - was found
	closed.	Monday Semester ends; grade reports due.
August 3,		INTERSESSION - 1993
Monday	Initial period for filing applications for	
	admission to the spring semester 1993 be-	January 4,
	gins.	Monday Intersession begins.
August 21,		January 18,
Friday	Instruction ends.	Monday Martin Luther King, Jr. Day —
FALI	L SEMESTER 1992	Campus closed.
August 24,		January 29,
Monday	Academic year begins; advisement and	Friday Intersession ends.
	orientation begins.	SPRING SEMESTER 1993
August 31,		
	Instruction begins.	January 25, Monday Semester begins; advisement and
September 7,		orientation begins.
	Labor Day — Campus closed.	
September 9,		February 1, Monday Instruction begins
	Admission Day — Campus open.	Monday Instruction begins.
September 28,	ridinision Day Campus open.	February 12,
	Rosh Hashanah — Campus open.	Friday Lincoln's Birthday — Campus open
October 7,	rosii riasiiariari — Campus operi.	February 15, Monday Washington's Birthday —
	Yom Kippur — Campus open.	Monday Washington's Birthday —
	ioni Ripput — Campus open.	Campus closed.
October 12,	Columbus Don Communication	April 5, manufacture for your extend and occupational goal
	Columbus Day — Campus open.	Monday Spring recess begins.
November 2,	1 1 16	April 12,
Monday	Initial period for filing applications for	Monday Instruction resumes.
	admission to the Fall Semester 1993	May 21,
N	begins.	Friday Last day of classes.
November 11,	V D C	May 24,
	Veterans Day — Campus open.	Monday Examination preparation day.
November 26-27	T 1	May 24-28,
	Thanksgiving recess — Campus closed.	Monday-Friday Semester examinations.
December 11,		May 29-30,
	Last day of classes.	Saturday-Sunday Commencement exercises.
December 14,		May 31,
Monday	Examination preparation day.	Monday Memorial Day — Campus closed.
December 14-18,		June 1-3
Monday-Friday	Semester examinations.	Tuesday-
December 21,		Thursday Evaluation days; grade reports due.
Monday	Winter recess begins.	June 3, Junted from the 19 computes since 1960.
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INTERSESSION 1993		
	FALL SEMESTER 1992	
SPRING SEMESTER 1991		
		Manday September 2
		December 1
		December 3

The California State University



The individual California State Colleges were brought together as a system by the Donahoe Higher Education Act of 1960. In 1972 the system became The California State University and Colleges and in 1982 the system became The California State University. Today, all 20 campuses have the title "university."

The oldest campus — San Jose State University — was founded as a Normal School in 1857 and became the first institution of public higher education in California. The newest campus — California State University, San Marcos — began admitting students in Fall 1990.

Responsibility for The California State University is vested in the Board of Trustees, whose members are appointed by the governor. The trustees appoint the chancellor, who is the chief executive officer of the system, and the presidents, who are the chief executive officers on the respective campuses.

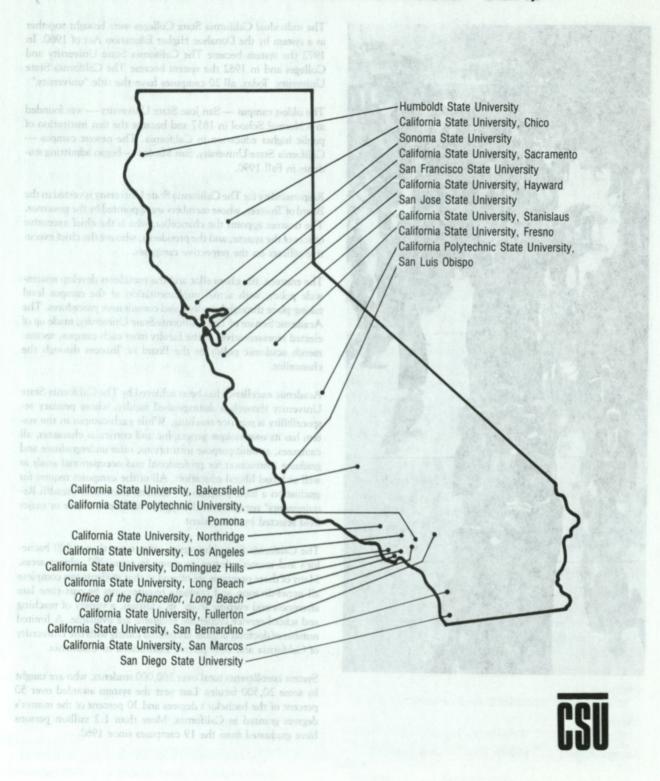
The trustees, the chancellor and the presidents develop systemwide policy, with actual implementation at the campus level taking place through broadly based consultative procedures. The Academic Senate of The California State University, made up of elected representatives of the faculty from each campus, recommends academic policy to the Board of Trustees through the chancellor.

Academic excellence has been achieved by The California State University through a distinguished faculty, whose primary responsibility is superior teaching. While each campus in the system has its own unique geographic and curricular character, all campuses, as multipurpose institutions, offer undergraduate and graduate instruction for professional and occupational goals as well as broad liberal education. All of the campuses require for graduation a basic program of "General Education-Breadth Requirements" regardless of the type of bachelor's degree or major field selected by the student.

The California State University offers more than 1,500 bachelor's and master's degree programs in some 200 subject areas. Many of these programs are offered so that students can complete all upper-division and graduate requirements by part-time late afternoon and evening study. In addition, a variety of teaching and school service credential programs are available. A limited number of doctoral degrees are offered jointly with the University of California and with private institutions in California.

System enrollments total over 360,000 students, who are taught by some 20,500 faculty. Last year the system awarded over 50 percent of the bachelor's degrees and 30 percent of the master's degrees granted in California. More than 1.2 million persons have graduated from the 19 campuses since 1960.

The California State University



Campuses of The California State University

- California State University, Bakersfield
 9001 Stockdale Highway
 Bakersfield, CA 93311-1099
 Dr. Thomas A. Arciniega, President
 (805) 644-2011
- California State University, Chico 1st and Normal Streets Chico, CA 95929 Dr. Robin S. Wilson, President (916) 898-6116
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 1000 East Victoria Street
 Carson, CA 90747
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- California State University, Fresno 5241 North Maple Avenue Fresno, CA 93740 Dr. Harold H. Haak, President (209) 278-4240
- California State University, Fullerton 800 North State College Blvd. Fullerton, CA 92634-9480 Dr. Milton A. Gordon, President (714) 773-2011
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- California State University, Los Angeles
 5151 State University Drive
 Los Angeles, CA 90032
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- California State University, Northridge 18111 Nordhoff Street Northridge, CA 91330 Dr. James W. Cleary, President (818) 885-1200
- California State Polytechnic University, *Pomona* 3801 West Temple Avenue Pomona, CA 91768
 Dr. Hugh O. La Bounty, President (714) 869-7659

- California State University, Sacramento
 6000 J Street
 Sacramento, CA 95819
 Dr. Donald R. Gerth, President
 (916) 278-6011
- California State College, San Bernardino
 5500 University Parkway
 San Bernardino, CA 92407
 Dr. Anthony H. Evans, President
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 San Jose, CA 95192
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 San Marcos, California 92069
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The Honorable Bill Honig
State Superintendent of
Public Instruction
721 Capitol Mall, Sacramento, CA 95814

Dr. Ellis E. McCune Acting Chancellor of the California State University 400 Golden Shore, Long Beach, CA 90802-4275

Appointed Trustees

Appointments are for a term of eight years, except for a student Trustee, alumni Trustee, and faculty Trustee whose terms are for two years. Terms expire in the year in parentheses. Names are listed in order of appointment to the Board.

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California State University, Fullerton



Governance

Governance on the campus at California State University, Fullerton is the responsibility of the president and his administrative staff. Working closely with the president are a number of faculty and student groups which initiate, review, and/or recommend for approval, various university programs, policies, and procedures. Although the president is vested with the final authority for all university activities, maximum faculty and staff participation in campus decision-making and governance has become traditional. Students also are actively involved, with student representatives being included on almost all university, school, and departmental committees and policy-making bodies.

Advisory Board

The California State University, Fullerton Advisory Board consists of community leaders interested in the development and welfare of the university. The board advises the president on a number of matters, particularly those affecting university and community relations. Members are appointed by the president for terms of four years.

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Chief Executive Officer, Unocal	Los Angeles
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Consultant	Orange

Philosophy and Objectives

Institutions of higher learning disseminate and advance knowledge. The philosophy which guides an institution can limit or promote the successful achievement of these objectives. Therefore, from its inception, Cal State Fullerton has consciously endeavored, through its educational program, to enhance the fullest possible development of those it serves. For both professors and students this entails a commitment to high standards of scholarship, to a comprehensive rather than a narrow approach in major areas of study, and to a concern with research and other creative activity.

The mission of CSUF, as articulated and adopted in the "Mission and Goals" statement of the campus is as follows:

- · The University will develop and challenge students intellectually to help them understand their leadership role in a domocratic society and their responsibility to be informed citizens. In addition, the University will provide appropriate preparation for careers and professions. Strong undergraduate degree programs in the traditional liberal arts and sciences disciplines as well as pre-professional and professional programs will be undergirded by a broadly based general education curriculum designed to educate every matriculated undergraduate student with regard to the history and diversity of human thought and culture. Postbaccalaureate work leading to degrees, credentials, licensures, and certificates will provide students with the depth of advanced knowledge needed within major discipline areas and professional fields.
- · As a principal component of the University's mission, faculty emphasis must be on effective teaching sustained by ongoing scholarly development, original basic or applied research, and other creative and professional activities. Thus, the University recognizes and nurtures the involvement of each CSUF teacher/scholar in the activities carried on within his/her disciplinary community. Furthermore, the University recognizes the importance of the collegial and cooperative intellectual atmosphere that exists on this campus and will continue to foster this environment, thereby reinforcing individual effort directed toward excellent teaching and scholarly/creative endeavors. It also recognizes and supports the existence of diverse viewpoints in the University community and commits itself to defend the academic freedom of all faculty and students.
- The University is committed to a variety of activities which enhance the learning environment and quality of life for students, faculty, staff, alumni, and the people of our region. Thus, to further its missions, the University encompasses the library, computer facilities, research institutes/ centers, the arts, athletics, recreation, and a variety of instructional, and student and alumni support programs. In

addition, the University is committed to programs designed to enhance "town-gown" relationships and provide other public services. Above all, however, is the obligation to create an institution which values morally and socially responsible actions and activities. The University is characterized by its dedication to the educational needs of a large and dynamic community, its balanced commitment to teaching and scholarly and creative activity, its concern for wide access to higher education, and its strong tradition of collegial governance. In the preservation and enhancement of these strengths lies the uniqueness of California State University, Fullerton.

Academic Freedom and Responsibility

The Academic Senate of California State University, Fullerton, endorses the 1987 Statement of Professional Ethics (University Policy Statement 230.000) and the 1940 Statement of Principles and Interpretive Comments of the American Association of University Professors contained in the 1984 Edition of Policy Documents and Reports.

Retrospect and Prospect

In 1957 Cal State Fullerton became the 12th State College in California to be authorized by the Legislature. The following year a site was designated in northeast Fullerton. It was purchased in 1959, when Dr. William B. Langsdorf was appointed as founding president, the first staff was selected and plans for opening the new college were made. Orange County State College started classes for 452 full- and/or part-time students in September, 1959, using leased quarters for its administrative offices on the Fullerton Union High School campus and for its classrooms at Fullerton's Sunny Hills High School. In the fall of 1960, the college opened classes on its own campus, where it occupied 12 temporary buildings. The name changed to Orange State College in July, 1962, to California State College at Fullerton in July, 1964, to California State College, Fullerton in July, 1968 and to California State University, Fullerton in June, 1972. The first permanent building, the six-story Letters and Science Building (now known as McCarthy Hall), was occupied in 1963.

Today, there is much dramatic evidence of additional, rapid growth. Seventeen buildings or building clusters have been completed, and enrollment has climbed to more than 25,000. Since 1963 the curriculum has expanded to include lower division work and many graduate programs.

The Donahoe Higher Education Act of 1960 established the California State Colleges as a system under an independent Board of Trustees, redefined the functions of the State Colleges, and related them to both the community colleges and the University of California system. Cal State Fullerton was the first of the State Colleges to submit and secure approval for a five-year master curricular plan and one of the first three to secure approval of a master building plan. It also was able to think in terms of its ultimate enrollment objectives from the beginning.

On May 26, 1971, Dr. L. Donald Shields, who had served as acting president for seven months, was appointed the second president of Cal State Fullerton. Dr. Miles D. McCarthy became acting president in January, 1981; Dr. Jewel Plummer Cobb took office as the third president in October, 1981; and Dr. Milton A. Gordon was appointed the fourth president in August, 1990.

Environment of the University

Fullerton, a city of more than 110,000 inhabitants, is located in northern Orange County, about 30 miles southeast of central Los Angeles. It is part of a new Southern California population center and within easy freeway access of all the diverse natural and cultural attractions of this region.

Orange County, with an area of 782 square miles, is the 48th in size of California's 58 counties, but it is the third largest county in population (2.3 million). Orange County has experienced during the last four decades almost unprecedented growth as communities continue to occupy the diminishing expanses of open land.

Today, there co-exists an interesting mixture of the old and new economic and life styles in Orange County. Underneath the soil, archaelogists and bulldozers uncover traces of the hunting and gathering Indian bands which flourished at least as early as 4,000 years ago in what was a benign and bountiful region. More visible traces remain of the Spanish and Mexican periods and cultures: Mission San Juan Capistrano, which began the agricultural tradition in Orange County, and subsequent adobes from the great land grants and ranches that followed. Additionally, both customs and many names persist from this period, and so does some ranching. The architectural and other evidences of the subsequent pioneer period are still quite visible: farmsteads, old buildings from the new towns that then were established in the late 1800's, mining operations, and traces of early resort and other types of promotional activities. For about 100 years, farming was the main economic activity with products such as grapes, walnuts, vegetables, and oranges, replacing the older wheat and cattle ranches. Today, agriculture still is very important. Orange County ranks high among California's counties in mineral production with its oil, natural gas, sand and gravel, and clay mining and processing activities.

The extensive development of the 42 miles of beaches in Orange County and the development of such attractions as Disneyland, Knott's Berry Farm, the Laguna Festival of Arts and Pageant of the Masters, the Anaheim Stadium and Convention Center and

the Orange County Performing Arts Center continue to make tourism an increasingly important activity. So does the Mediterranean-type climate, with rainfall averaging 14 inches per year, and generally mild days (either freezing or 100- degree temperatures uncommon) with frequent morning fogs during the summer. Both downtown Los Angeles and the Pacific Ocean can be reached by car in half an hour, and mountain and desert recreation areas are as close as an hour's drive from the campus.

The Campus and Its Buildings

Once part of a vast orange grove, Cal State Fullerton's attractively landscaped main campus now consists of 225 acres bounded on the south by Nutwood Avenue, on the west by State College Boulevard, on the north by Yorba Linda Boulevard and on the east by the Orange Freeway.

The portion of Orange County immediately surrounding the campus is predominantly suburban; it includes housing tracts, apartment complexes, shopping centers, space-age industrial firms, and undeveloped hills and fields.

Other educational institutions also are part of the immediate environment. The Southern California College of Optometry, with its four modernistic buildings, opened in the spring of 1973. It is just north of Cal State Fullerton. To Cal State's immediate south is Pacific Christian College, a liberal arts school with a Bible emphasis, where students started classes in the fall of 1973. The Western State University College of Law, California's largest law school, occupied its new campus to the immediate west of Cal State in January, 1975.

The Cal State Fullerton campus itself has a high density urban layout of buildings and facilities developed to serve a predominantly commuting public. The university's modern buildings were planned so that no student should need more than 10 minutes to go from one class to another. The campus is surrounded with landscaped parking facilities.

The first permanent building, the Letters and Science Building, was occupied in 1963. This imposing structure, master planned to serve ultimately as a facility for undergraduate and graduate science instruction and research, has been used to house other programs until they could warrant new facilities of their own. This building is now called Miles D. McCarthy Hall.

Since 1963, growth has been rapid. The Performing Arts Center was completed in 1964, the Physical Education Building in 1965, the Library Building in 1966, the Commons in 1967, the Humanities-Social Sciences Building and Visual Arts Center in 1969, William B. Langsdorf Hall (Administration-Business Administration) and the Engineering Building in 1971, the Student Health Center in 1974, the Education-Classroom Building and University Center in 1976, an addition to the Visual Arts Center

in 1979, the Jewel Plummer Cobb Residence Halls and the Charles L. and Rachael E. Ruby Gerontology Center in 1988, and the Fullerton Marriott and the Computer Science Building in 1989. The Ruby Gerontology Center was the first building on campus financed solely by contributed funds; the Fullerton Marriott, a full-service hotel, resulted from a joint venture involving the Marriott Corp., the university and the City of Fullerton.

Under construction and due for completion in 1992 are an expansion of the University Center; a sports complex featuring a multipurpose stadium, baseball pavilion, track and tennis courts; and a two-story laboratory annex to McCarthy Hall.

In the northeast corner of the campus is the Fullerton Arboretum, which was dedicated in the fall of 1979 in a joint venture with the city of Fullerton. It includes a 15-acre contoured botanical garden, a three-acre organic garden and a two-acre experimental plot. The ecologically arranged flora depicts habitats from the desert to the tropics. The Fullerton Arboretum also includes Heritage House, a 19th-century restored dwelling. Heritage House serves as a cultural museum for North Orange County as well as an Arboretum office.

The ample freeway and surface street accommodations that approach the main entrance to the university's modern campus also provide comparatively easy access to the great and diverse learning resources available in Southern California: many other colleges and universities; museums, libraries, art galleries; zoos; and the wide variety of economic, governmental, social, and cultural activities and experiments that may be found in this dynamic and complex region of California and the United States.

Information concerning the instructional, laboratory and other physical plant facilities which relate to the academic program may be obtained from the Office of Facility Planning and Construction.

CSUF Mission Viejo Campus

The California State University, Fullerton-Mission Viejo Campus is located on the lower campus of Saddleback College in Mission Viejo. As a satellite campus of Cal State Fullerton, it serves the higher education needs of southern Orange County. The Mission Viejo Campus offers coursework at both the upperdivision (junior/senior) and postbaccalaureate levels. Lower-division (freshman/sophomore) coursework, including the lower-division General Education requirements must be taken at either the main campus in Fullerton, or at a community college.

Students who plan to attend the Mission Viejo Campus (MVC) must be admitted to California State University, Fullerton through the regular admissions process. Applications for admission to the University are available at both the main campus and the Mission Viejo Campus. Registration for MVC classes takes place through the regular University processes and can be accomplished at the MVC site.

Information regarding the University or MVC is available to students and prospective students in the MVC administrative offices located in Building H. This facility also houses offices for the faculty, staff and the MVC director.

Students enrolled at the Mission Viejo Campus receive all of the student services available at the main campus in Fullerton. MVC students are also eligible to use Saddleback College's Student Health Center, Library, and recreational facilities. The Assistant Dean for Student Affairs at MVC provides information on all student services and serves as ombudsman for all student con-

The University Library at MVC offers access to all materials contained in the main library at Fullerton. Students can access periodical articles through means of an extensive system of CD-Rom computer work station. The MVC library also has a collection of more than 400 periodicals on microfilm. Through Interlibrary Loan and other library services, students at MVC can access most academic libraries in the United States.

Eighteen Epson Equity-One computers are available for student and class use. The MVC computer center is on-line with the mainframe located at the Fullerton Campus, so that students can access all University computer services from the satellite campus.

For information, contact the CSUF-Mission Viejo Campus, 28000 Marguerite Parkway, Mission Viejo, California 92692 or telephone (714) 582-4990. Office hours are 8:30 a.m. to 7:30 p.m. Monday through Thursday, and 8:30 a.m. to 2:00 p.m. on Friday.

Students of the University

Much of the distinctive character and learning atmosphere of any campus comes from the nature and vitality of its students. Diversity, the synthesis of academic with work and family interests, strong achievement records, and relative maturity are some of the predominant characteristics of the student body at Cal State Fullerton.

The university is primarily a commuter institution, with one oncampus residence facility which opened in the spring of 1988. Over 70 percent of the students work 20 or more hours per week, and yet 57 percent of all students take 12 or more hours of course work each semester. The majority of students live in Orange County. Of the fall 1990 new undergraduate students, 44 percent came from California high schools, 41 percent came from California community colleges, 8 percent from other Cal State campuses, 3 percent from other California colleges and universities, and 5 percent from other states or other countries. The fall 1990 new graduate students came from other Cal State campuses (55 percent), other California colleges and universities (22 percent), and other states or other countries (23 percent).

The student body is 9 percent first-time freshmen, 20 percent other lower division, 54 percent upper division, and 17 percent graduate levels. Fifty-six percent of all students are women. The median age of all students is 23; undergraduates have a median age of 22, while graduate students have a median age of 30. Over 40 percent of students take advantage of course offerings during the day and at night, in order to create a workable schedule for their multiple responsibilities.

Many students already have clearly defined interests in a major field of study. Only 7 percent of all students have not yet declared a major, and are in the process of exploring different fields of knowledge. During 1989-90, 3,741 undergraduates received their baccalaureate degrees, and 629 graduates received their master's degrees.

The Faculty

Central to the effectiveness of any institution of higher learning is the quality and dedication of its individual faculty members to teaching and scholarship.

In the fall of 1989 there were 775 full-time faculty and administrators and 722 part-time faculty members teaching on the campus. Almost all the full-time faculty had some previous college or university teaching experience before coming to Fullerton. Faculty members also have a wide variety of experiences and creative activities. Over 90 percent of the tenured and tenure track faculty have earned their doctoral degrees.

Criteria for selection to the faculty include mastery of knowledge in an academic specialty, demonstrated skill and experience in teaching, and continuing interest in scholarly study and research. Retention and promotion criteria also include service to the university and community.

Information concerning the faculty and other personnel may be obtained from the Office of Faculty Affairs and Records.

Outstanding Professor Award

Each year the University selects a faculty member to receive the CSUF Outstanding Professor Award. This individual becomes the campus nominee for the statewide Outstanding Professor Award, an honor conferred annually on two system faculty by the by the Trustees of the California State University.

Below are the names of all professors who have received the CSUF Outstanding Professor Award. Those with an asterisk were also honored with the statewide award.

1963-64	Donald Stanley Tull	Marketing
1964-65	Miles Duffield McCarthy	Biology
1965-66	Giles Tyler Brown	History
1966-67	Gustave Bording Mathieu	Foreign Languages &
1967-68	Norman Townsend-Zellner	Economics
	John Brown Mason	Political Science
1969-70	No award given	
1970-71	Loh Seng Tsai	Psychology

1971-72	Richard C. Gilbert	Mathematics 7
1972-73	Herbert C. Rutemiller	Quantitative Methods
1973-74	Fred M. Johnson	Physics
1974-75	Willis E. McNelly*	English
1975-76	Donald E. Lagerberg	Art
1976-77	Sydney Klein	Economics
1977-78	Charles G. Bell	Political Science
1978-79	Bruce H. Weber	Chemistry
1979-80	Michael H. Horn	Biology
1980-81	Donald A. Sears	Linguistics
1981-82	Joyce E. Pickersgill	Economics
1982-83	Carl C. Wamser	Chemistry
1983-84	Corinne S. Wood	Anthropology
1984-85	Maria Linder	Chemistry
1985-86	Charles C. Lambert	Zoology
1986-87	Glenn M. Nagel	Chemistry
1987-88	Harris S. Shultz*	Mathematics
1988-89	Warren A. Beck	History
1989-90	Roger Nanes	Physics

President's Community Minority Affairs Advisory Council

The President of California State University, Fullerton has established a Council to assist and advise the President on matters of importance in meeting the educational needs of the constituent minorities represented in the Community and on the Campus. The Council is comprised of representatives selected from the distinguished leadership of the Community who are from various ethnic groups, public schools, businesses, churches, local civic organizations, student organizations, parent groups, and Campus groups.

Jo Caines, Chair	
Director of Community Relations,	Huntington Beach
John Hobgood, Vice Chair	
Communications Consultant	Laguna Beach
Tsu-Tsair O. Chi	
Laboratory Director, Omicron Inc	Anaheim
Tina Fernandez	
Specialist, Orange County Human	
Relations Commission	Santa Ana
Frank Dominguez	
Director, United Way Hispanic	
Development Council	Garden Grove
Harvey Hoyo	
Principal, Faye Ross Junior High School .	Artesia
Toni Miller	
Counselor, John Glenn High School	Norwalk
Albert Perales	
Counselor, Kraemer Junior High School	Placentia
Chieu Minh Pham	
Educator and Computer Specialist	Orange
George Williams	
Director, Orange County Urban League	Garden Grove

University Administration

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President Milton A. Gordon
Staff Assistant Norma Morris
Executive Assistant
Director of Affirmative Action
Administrative Assistant F. Caroline Cosgrove
Director of Athletics
Associate Director for Internal Affairs Leanne Grotke
Associate Director for Business Affairs
'Associate Athletic Director for Marketing and Development and Director, Titan Athletic Foundation Walt Bowman
Director of Operations
Assistant Athletic Director for Media Relations Mel Franks
Director of Budget Planning and Administration Sherri Newcomb-Hill
Assistant Director E. Sue Boeltl
Administrative Assistant
Budget Analyst Linda Erickson
Budget Analyst Michele L. Janiel
Systems Analyst Keiko Takahashi
Payroll Supervisor Vacant
Vice President for Academic Affairs Jack W. Coleman
Associate Vice President, Academic Affairs John W. Bedell (Acting)
Staff Assistant Marlys K. Rietman
Coordinator, Faculty Affairs and Records Mary Watkins
Associate Vice President, Academic Programs Dennis F. Berg
Assistant Vice President/Graduate and International Programs
Director of Graduate Studies
Coordinator, Undergraduate Studies
Coordinator, Health Professions
Athletic Academic Coordinator
Prelaw Adviser Harvey Grody
Coordinator, Special Projects
Associate Vice President, Research and External Programs
Director of Extension Administration James T. Mavity
Director of Extended Education Program Services
Director of Certificate Programs Shelley Bartenstein
Director of Program Management
Director of Corporate and Public Education
Director of Seminars and Teleconferencing
Associate Vice President, Information and Telecommunication Services
Director, Administrative Computing
Director, Telecommunications
Instructional Services Manager Michelle Perlman
Operations Manager Charles Sowers
University Librarian
Associate University Librarian
Collection Development Officer
Chair, Public Services
Chair, Technical Services Janice Zlendich
Director of Admissions and Records
Assistant to the Director of Admissions and Records Francis M. Casey
Admissions Officer
University Articulation Officer William Gowler
Registrar
Assistant Registrar Lynnette Housty
Director of Analytical Studies
Associate Director of Analytical Studies

Director, Faculty Research and Development
Coordinator, Contracts and Orants Elizabeth Gewin
Director, Center for Internships and Cooperative Education
Director, Mission Viejo Campus
Director, Mission Viejo Campus George Giacumakis Radiation Safety Officer John Elliott
Director Student Academic Services and
University Outreach
Associate Director, Student Academic Services and
University Outreach
Coordinator, Student Academic Services
Coordinator, Learning Assistance Resource Center
Coordinator, University Outreach Services and Relations with Schools and Colleges
Director of Television and Media Support Center Ernest B. Gourdine Media Consultant William Shultz
Distribution and Maintenance Supervisor
Vice President for Administration
Insurance & Facility Use Officer
Associate Vice President, Facility Planning & Construction
Facility Planner
Director, Design & Construction Services
Construction Administration
Controller
Internal Financial Analyst/Auditor
Assistant Controller
Accounts Payable Supervisor
General Accounting Supervisor Lydia L. Rodriguez
Cashiering Supervisor Leslie A. Reed
Manager, Student Aid Accounting
Supervisor, Student Aid Accounting Receivables
Supervisor, Student Aid Loan Collection
Purchasing & Support Services Officer LeRoy Page
Manager, Logistical Services
Supervisor, Campus and U.S. Mail Services
Director, Personnel Services & Staff Employee Relations
Associate Director
Classification
Employee Benefits/Workers' Compensation
Employee Relations, Grievances, Discipline, Performance Appraisals
Recruitment
Training and Development, Temporary Help
Director, Physical Plant
Assistant Director, Operations
Manager, Administrative Services
Assistant Director William E. Huffman
Environmental Health & Safety Officer
Manager, Transportation/Parking/Visitor Information
Executive Director, Foundation
Director, Finance and Administration
Director Commercial Operations
(Titan Bookstore and Titan Shops)
Assistant Director, Book Division
Assistant Director, Merchandise Division
Assistant Director, Business Services Jean M. Tebbe
Lectrical Engineering Department

Assistant Director, Food & Vending Services
Director, Dining Services (Campus Food Services) Vice President for Student Affairs Associate Vice President for Student Affairs Assistant Vice President for Student Affairs Assistant Vice President for Student Affairs Administrator for Associated Students Coordinator, Academic Appeals Director, Career Development Center Director, Financial Aid Director, Financial Aid Director, Disabled Student Services Director, Housing and Residence Life Director, Financial Education and Exchange Director, Testing and Research Director, Testing and Research Director, University Activities Center Director, Women's Center Director of Alumni Affairs Sue Lasswell Director of Alumni Affairs Robbie L. Nayman Pallis M. Biller Director, Career Development Center Roberta F. Browning James T. Shafer Darlees Stevenson Paul K. Miller Darlene Stevenson Darlene Stevenson Director, Judent Health and Counseling Service Charles B. Darke Director, University Activities Center Loydene Pritchard Director of Alumni Affairs Sue Lasswell
Director of Annual Fund Susan B. Smith (Acting) Director of Corporate and Foundation Relations Leo H. Cullum Director of Public Affairs Jerry J. Keating Director of Public Information Judy M. Mandel Executive Director of Titan Athletic Foundation Walter F. Bowman
Schools, Divisions and Departments
School of the Arts Dean
School of Business Administration and Economics
Dean Ephraim P. Smith Associate Dean
School of Communications
Dean David B. Sachsman Associate Dean Robert Emry Communications Department Terry Hynes Speech Communication Department Joyce M. Flocken
School of Engineering and Computer Science Dean
Dean

Dean	Service Mary Kay Tetreault
Associate Dean	Michael Parker
Counseling Department	James R. Bitter
Educational Administration Department	Walter Beckman
Elementary and Bilingual Education Department	Carol Barnes
Health, Physical Education and Recreation Department	How Jon or burd to burd January Anne Marie Bird
Nursing Department	Julia B. George
Reading Department	Ashley Bishop
Secondary Education Department	Paul Kane
Special Education Department	Leo Schmidt
Child Development Department	Judith Ramirez
Human Services Program	Gerald Corey, Coordinator
Military Science Program	
University Recreation Program	Ronald G. Andris, Director
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School of Humanities and Social Sciences	gents and moracy graduation budgetors, and recruits and wording convenience on campus, accumulating and managing convenience or campus, accumulating and managing convenience.
Dean	Don A. Schweitzer
Administrative Assistant	Elaine Hutchison
	Emory Tolbert
	Wayne Hobson
Anthropology Department	Jacob Pandiar
Chicano Studies Department	Isaac Cardenas
Criminal Justice Department	James Farris
English and Comparative Literature Department	Joseph Sawick
Foreign Languages and Literatures Department	Eva Van Ginneker
Geography Department	Robert Young
History Department	James F. Woodward
Linguistics Department	Thomas P. Klamme
Philosophy Department	Merrill Ring
Political Science Department	Sandra Sutpher
Psychology Department	
Religious Studies Department	Benjamin Hubbard
Sociology Department	Ron Hughe
Environmental Studies Program	Stewart Long, Coordinato
	Rosalie Gilford, Coordinato
Latin American Studies Program	Bruce Wright, Coordinato
	Ronald Clapper, Coordinato
Russian and East European Area Studies Program	Robert Feldman, Coordinato
M.A. in Social Sciences Program	Ron Riggio, Coordinato
	Diane Ross, Coordinato
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School of Natural Science and Mathematics	
Dean	
Associate Dean, Academic Affairs	Margaret Woysk
Associate Dean, Administrative Affairs	Marvin Rosenberg
Biological Science Department	
Chemistry and Biochemistry Department	Glenn Nage
Geological Sciences Department	Gerald Brem (acting
Mathematics Department	James O. Frie

Physics Department Mark Shapiro
Science Education Program Eric Streitberger, Coordinator

CSUF	23
COUL	4)

California State University, **Fullerton Foundation**

The California State University, Fullerton Foundation was established and incorporated as a not-for-profit corporation in October 1959. The Foundation is an auxiliary organization of the university established to provide essential student, faculty and staff services which cannot be provided from state appropriations. It also supplements the program and activities of the university in appropriate ways by assisting the university in fulfilling its purposes and in serving the people of the State of California especially those in the immediate Fullerton area.

Some of the activities in which the Foundation assists the university are developing and administering research and educational grants and contracts; conducting bookstore, food service and vending operations on campus; accumulating and managing endowment and student scholarship funds; and administering various educationally related functions and special programs such as the Tucker Wildlife Sanctuary.

The Foundation's overall policies are administered by a Board of Directors composed of members of the university faculty, administration and students as well as prominent community leaders.

Board of Directors

David L. Palmer, Chair# Sal D. Rinella, Vice Chair* Gary R. Del Fium, Secretary# Sherry D. Jarrett, Treasurer* (ex officio) William M. Dickerson, Executive Director* (ex officio) Joe Ahn† Elisha Back† Ted Bremner# Bert Buzan** Clare Carlson* Edward Carpenter# Robert Clark, Ir.# lack W. Coleman* Barbara Finlayson Pitts** Tim Garcia† Milton A. Gordon* Kolf Jayaweera* Stewart Long* Robbie L. Nayman Robert Ostengaard#

Walter J. Pray#

James P. Stickels*

#Community Member

Administrative Officers

William M. Dickerson, Executive Director Sherry D. Jarrett, Acting Director of Finance and Administration

James F. Sando, Director of Commercial Operations and nearly and Bilingual Education Department

CSUF Alumni

Five students were first to graduate from Cal State Fullerton, becoming the Class of 1960. Since then, over 75,000 graduates have passed through the university.

CSUF alumni have a vested interest in their university. They have been part of its past, belong to its present and are working for its future. Representing those alumni is the CSUF Alumni Association, which consists of the board of directors (governing body), school councils and chartered departmental, special interest and regional chapters.

Inaugurated in November, 1983, the organization serves to advance the university's interests through alumni talents, services, energies and financial assistance to nurture and enhance the academic setting in such a way that students will benefit directly. The group promotes alumni involvement on campus and honors outstanding student, faculty, staff, community and alumni achievement.

Membership privileges are extended to CSUF graduates who earned a bachelor's or master's degree, as well as those who have earned a credential or certificate from the university. Members enjoy tangible benefits such as the quarterly publication (Titan News), library privileges, career services, travel programs, insurance and financial services, various events and discounts.

Community Support Groups

California State University, Fullerton has established close relationships with the community which has resulted in community support groups that are involved in the life of the university and support the university in ways that are unique to the particular organization. Each group determines membership criteria and annual membership fees and assists in developing goals that will advance the quality of student, faculty and educational environment of the university. Further information about community support groups may be obtained from the Office of University Relations and Development located in Langsdorf Hall 805 at (714) 773-2108.

Art Alliance

The Art Alliance provides support programs for the Art Department and Gallery through scholarships for art students, endowment funds, financial support for Main Art Gallery exhibitions and catalogs, and the administration of a docent program which provides tours for special groups and high school students.

Continuing Learning Experience

Continuing Learning Experience is an organization of retired and semi-retired men and women who wish to pursue continuous learning in an educational environment. CLE's programs are designed to serve special interest groups and/or respond to special academic needs in the community. Members of CLE were active in raising funds for the Ruby Gerontology Center on campus.

Executive Forum

The membership of the Executive Forum is composed of chief executive officers and senior executives in California, who advise and assist the university president on matters relating to improving education and research at Cal State Fullerton. Its members recommend measures and actions to stimulate and promote better relationships with the business community, as well as improve California's quality of life.

Friends of the Fullerton Arboretum

Besides contributing annually to the Fullerton Arboretum operating budget, the Friends augments and assists the arboretum program through a wide variety of volunteer functions. The purpose of the arboretum is threefold: to create a quiet, esthetic retreat in the midst of a rapidly growing urban area; to provide the university and surrounding communities with a resource for environmental and historical education; and to encourage research and experimentation in horticulture, plant ecology, and the conservation of natural resources.

Music Associates

The Music Associates of California State University, Fullerton is a volunteer organization which provides support to the Department of Music in its goals for excellence. Annual contributions to a music scholarship fund for entering music majors, sponsorship of an annual Performance Award Contest, and the purchase of special equipment and instruments which enhances the music programs are among the objectives of this group. Fund raising activities include an annual Spring Luncheon held in the Marriott Hotel, a membership drive, and the co-sponsorship of a "Candlelight Carol Dinner" which features the University Singers.

Parents' Association

The Parents' Association is designed to respond to the needs and interests of the parents of California State University, Fullerton students. The organization sponsors a broad spectrum of activities and educational programs as well as contributing financially to unmet university needs.

Patrons of the Library

The Patrons of the Library is an organization of community leaders, concerned citizens, former students, faculty and staff who generate financial support to sustain the margin of excellence of the university Library. It is a group that is unique among the 20 campuses of The California State University in the quality of its support of library holdings and facilities.

Patrons of the Museum of Anthropology

The Patrons of the Museum of Anthropology support the Anthropology Museum and its exhibits. Its members attend exhibit previews and receptions, as well as special addresses by guest lecturers. Tours and field trips also are available.

President's Associates

The President's Associates is an organization of dedicated community leaders committed to the support of quality higher education. Membership contributions enable the university to initiate and sustain quality cultural and educational programs, including the Presidents' Scholars and Presidents' Opportunity Scholars scholarship and special recognition awards of faculty and students.

Reading Educators' Guild

The Reading Educators' Guild is composed of those who have graduated from California State University, Fullerton with a Master of Science in Education, Reading. The Guild has a close working relationship with the Department of Reading, and promotes research dealing with all aspects of reading.

Titan Athletic Foundation

The Titan Athletic Foundation is a nonprofit organization that exists solely to aid the athletic program at California State University, Fullerton. The foundation is composed of individuals who have a genuine interest in athletics, the university, and the community and support athletics by providing funds for scholarships that ensure an effective recruiting program.

An Alliance with the second Par

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Eriends of the Bullewon Arboretum

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of Music in its goals for excellence. Annual contributions to a music scholarship fund for entering music majors, sponsoring of an annual Ferformance Agard Correst, and the purchase of special equipment of the function of the formance of special equipments of this group. Fund traising activities include among the objectives of this group. Fund traising activities include an annual Spring Contress in fall in the Wall on the Hard, which for an annual Spring Contress in fall in the Wall of the Contribution of the contributi

Parents' Association

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Patrons of the Library

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President's Associates

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Reading Educators' Guild

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Academic Services

Academic Affairs

California State University, Fullerton provides a diversity of educational opportunities to satisfy the broad range of backgrounds and interests of its students and to meet the continually changing and ever growing demands of not only our local community and the state, but to accommodate the increasingly significant national and global expectations as well. The academic programs available include 45 bachelor's degrees, 41 master's degrees, 45 minors, 3 resident certificates and 14 teaching credential programs. Over 3,660 courses have been developed to provide learning from introductory to highly specialized, in-depth and advanced work in a wide variety and growing number of fields of study.

The mission of the University is to provide excellent educational opportunities to its students to enable them to develop intellectually, personally and professionally. To this end, the University is committed to attracting and retaining a diverse student body and faculty for all of its programs. Fundamental to these endeavors are excellence in instruction, actively involved faculty, and adequate support for the instructional mission.

Academic excellence is provided in the various specializations offered by the University by encouraging departments and professional schools to develop programs for their majors through a formal process that ensures careful and thoughtful review by various levels of the University. The General Education Program is designed to assure that graduates have made significant progress toward being a well-educated person by integrating into the major programs a relative balance in strength of required courses in the physical sciences, the social sciences, the humanities and the fine arts. These courses are planned to complement those offered through the major programs and electives. Articulation agreements with the local community colleges clarify the courses that will be accepted for credit in both general education and major programs.

Vice President for Academic Affairs

McCarthy Hall 133 (714) 773-2614

The Vice President for Academic Affairs is responsible for the leadership and coordination of all campus academic matters. The Vice President is the chief academic officer for the campus and is directly involved in the areas of curriculum development, faculty personnel processes and budget and resource allocation as they pertain to instruction and academic support.



The academic vice president works closely with the President, the academic associate vice presidents, deans, and program directors regarding all instructionally related planning and operational matters. Related responsibilities include: (1) oversee the development and review of curriculum and educational and professional policy; (2) instructional resource administration relating to staffing, operating expenses and equipment; (3) assuring that all faculty and academic staff personnel actions reinforce and complement the qualitative objectives of the university while meeting its strong commitment to the principles and spirit of affirmative action; (4) administration of academic support services such as the library, admissions and records, extended education, computer center, and student EOP and affirmative action programs. As chief academic officer, the Vice President reviews department and faculty Personnel Committee recommendations, in order to make final recommendations to the President on all faculty and tenure considerations as well as other academic personnel actions as required by university policy.

Information concerning the academic programs of Cal State Fullerton may be obtained from the Office of the Vice President for Academic Affairs. This information may include:

- 1. The current degree programs and other educational and training programs;
- 2. The instructional, laboratory, and other physical plant facilities which relate to the academic program;
- 3. The faculty and other instructional personnel;
- 4. Data regarding student retention at Cal State Fullerton and, if available, the number and percentage of students completing the program in which the student is enrolled or has expressed interest; and
- 5. The names of associations, agencies or governmental bodies which accredit, approve, or license the institution and its programs, and the procedures under which any current or prospective student may obtain or review upon request a copy of the documents describing the institution's accreditation, approval or licensing.

Academic, Graduate and International Programs

McCarthy Hall 129 (714) 773-3602

The Office of Academic, Graduate and International Programs coordinates the development of educational programs; provides an all-university perspective on educational activities at the campus; and stimulates academic innovations.

The Associate Vice President, Academic Programs, and the Assistant Vice President, Graduate and International Programs, are responsible for administering university policies and regulations dealing with undergraduate and graduate curricula; fostering and administering institutional exchange programs with foreign universities; preparing and publishing the university catalog; and serving as liaison to the Western Association of Schools and Colleges (WASC) and other accrediting agencies.

The Office of Academic, Graduate and International Programs provides leadership for the Curriculum Committee, General Education Committee, Graduate Education Committee, International Education Committee and other groups and individuals concerned with changing and improving the educational programs of this institution. Responsibilities relating to the Chancellor's Office include regular review and updating of the Academic Master Plan; coordination of program performance review; and staff reports for the Chancellor's Office relating to academic

Academic Senate

McCarthy Hall 143 (714) 773-3683

The Academic Senate develops, formulates and reviews educational and professional policy which becomes university policy if approved by the President. Among other things, educational and professional policy includes: curricula; academic standards; criteria and standards for the selection, retention, and promotion of faculty members; academic and administrative policies concerning students; and allocation of resources. There are 14 standing committees of the Senate and three general committees of the faculty. The Senate consists of 45 members and includes two student representatives. The managed has technique evitam

The 15 standing committees of the Academic Senate are: Academic Standards Committee, Budget Advisory Committee, Computing Affairs Committee, Curriculum Committee, Elections Committee, Extended Education Committee, Faculty Affairs Committee, Faculty Development and Educational Innovation Committee, General Education Committee, Graduate Education Committee, International Education Committee, Library Committee, Long Range Planning and Priorities Committee, Research Committee, and Student Academic Life Committee.

The Senate typically meets every other Thursday in Library 117 at 11:00 a.m.

Admissions and Records

Langsdorf Hall Lobby (714) 773-2300 STRUJDE; whole variety is follow disciplin

The Office of Admissions and Records is responsible for the administration of the admission, registration, records, and services to undergraduate and graduate students in the regular sessions of California State University, Fullerton. These programs and services provide preadmission guidance to prospective students and current information about the university's curricula and requirements to school and college counselors; admit and readmit students within enrollment categories and priorities; evaluate the applicability of undergraduate transfer credit toward all-university requirements of the curriculum; provide liaison in the identification and resolution of articulation problems of transfer students; register student programs of study, including enrollment into classes; maintain academic records; administer academic probation and disqualification policies; provide enrollment certifications on student request, including transcripts of academic records, to the Veterans Administration and for other purposes; certify the completion of degree and credential requirements; receive petitions for exceptions to academic regulations; and provide information about these programs and services.

Analytical Studies

McCarthy Hall 136 (714) 773-2121

The Office of Analytical Studies is responsible for the organization, analysis, and presentation of the information and data essential for the support of campus policy formulation, resource allocation, and short- and long-range planning. The office participates in the development and enhancement of institutional information data base systems, and conducts descriptive and analytic research on campus trends, program and policy effectiveness, and a variety of institutional characteristics, as required by the President and the Vice President for Academic Affairs.

Among the institutional data with which the Office of Analytical Studies is concerned are student and faculty demography, student progress, enrollment, curriculum and scheduling, space and facilities utilization, testing, workload, regional demography, affirmative action, budget and program performance review.

The Office of Analytical Studies produces and publishes regular campus reports such as the Statistical Handbook, as well as relevant reports required by the Chancellor's Office and other agencies, there? assumes a composed behaviored assumes O enter

Computer Center McCarthy Hall 38 (714) 773-3921

(714) 773-3921

The Computer Center is located in the basement of McCarthy Hall. The campus has two separate mainframe computers: a DEC VAX 8550 for instructional purposes and an IBM 3090-150E for all on-line administrative data processing for the University. Also available for instructional support are two AT&T 3B2 UNIX machines and one IBM 9370. Instructional users have access to such software applications as SPSS-X, SAS, SPICE, BMD, STRUDL, and a variety of other discipline-specific programming tools.

Students have access to these central computing resources from over 1000 micro-computers and terminals connected to the campus data communications network. Open-access satellite labs are located in each building, allowing students convenient computer-related services. Computer workshops are conducted to train and assist students in the proper use of computing equipment.

Extended Education

Building T-14 (714) 773-2611

The Office of Extended Education is responsible for all university program and course offerings not supported by state appropriations. These include summer and intersession, extension courses, adjunct enrollment, travel study programs, contract courses, certificate programs and teleconference programming. In contrast to state-supported programs which require matriculation and a degree objective, most Extended Education programs allow any adult and selected high school students to participate. The primary objective of Extended Education is to augment the regular university offerings and to provide further educational opportunities for all who wish to gain new knowledge and skills or to enhance those already acquired. Courses are taught by regular university faculty, visiting faculty and practicing professionals. All are specialists in their fields. Additional information concerning the Extended Education programs may be found in the Academic Programs section of this catalog.

Graduate Studies

McCarthy Hall 129 (714) 773-2618

The staff of the Office of Graduate Studies assists students in answering questions about admission, academic policies and procedures, graduate programs, financial assistance, student services, and other matters of concern to applicants or graduate students. The office is also responsible for performing an evaluation of student programs at classification and completion of requirements for authorizing award of degree.

The Assistant Vice President for Graduate and International Programs is the appropriate university authority for coordinating and administering all matters related to graduate degree curricula. This position is guided by the policy recommendations of the Graduate Education Committee.

Faculty Affairs and Records

McCarthy Hall 142 (714) 773-2125

The Office of Faculty Affairs and Records is the official repository for documents and correspondence concerning full-time teaching and administrative faculty. It has responsibility for retaining documentation pertaining to employment, reappointment, tenure, promotion, leaves of absence, grievances, disciplinary actions and separations.

Faculty Research

McCarthy Hall 112 (714) 773-2106

The Office of Faculty Research and Development provides assistance to faculty and staff in their efforts to obtain funding for research and other creative activities. The office offers pre-proposal consultation, information about funding opportunities and assistance with budgets, technical design, typing and editing of proposals. It also publicizes and administers intramural research grants. A small library is maintained in McCarthy Hall 112 to aid faculty in identifying grant resources, federal/private announcements and agency/foundation grant profiles.

International Programs

McCarthy Hall 129 (714) 773-2618

The Office of Academic, Graduate and International Programs serves as the focus for all aspects of the University's commitment to academic internationalization. It is responsible for overseeing and directing the internationalization of the curriculum. It also initiates and administers contacts with sister institutions throughout the world in order to foster the exchange of faculty and students.

For more information on specific opportunities to study abroad, either through the CSU system-wide International Program or direct links that CSU Fullerton has with foreign institutions, see the section of this catalog titled "International Programs" on page 161.

Television & Media Support Services

Library 80 (714) 773-2621

The Television and Media Support Center, located on the Lower Level of the Library building, includes audiovisual equipment and media distribution, materials design and production and instructional television services.

Audiovisual services for the faculty include the use of audiovisual equipment and materials. Conventional classroom AV equipment - motion picture, slide, opaque, and overhead transparency projectors, audio and video tape recorders, and phonographs are provided. Special purpose equipment and accessories are available.

Design and production services for faculty include assistance in selecting appropriate media for specific course objectives, and the production of media not otherwise obtainable. Graphics of all sorts rendered as overhead transparencies, easel or wall posters, or camera ready copy are available. Photographic slides and prints are provided. Audiotapes are produced, edited, and duplicated, on reel or cassette, for classroom use. Modules incorporating several media (e.g. sound/slide) will be designed and packaged in consultation with requesting faculty.

Personnel of the Center consult with faculty in the analysis of media needs and advise in the procurement or production of materials appropriate for instructional goals and objectives.

Television services include the production of instructional and informational modules for closed circuit distribution on campus or presentation within the classroom or distribution by means of CATV. Videotaping can take place in studio facilities, in the classroom, or at appropriate locations on or off the campus. Courses are delivered by means of cable television and microwave transmission to high schools and other remote sites by means of the Titan Interactive Network (TIN). The Television and Media Support Center, in cooperation with Extended Education, receives satellite-delivered teleconferences for the campuses and members of TIN.

Television and Media Support Center staff operate the system which provides university access programming to the CATV companies in Fullerton, Placentia, Anaheim, and Villa Park. While the CSUF Communications Department and the Theatre Department contribute to the cable schedule, instructional programming and operations management are provided by the Television and Media Support Center.

Interactive Televised Instruction is the latest addition to the Center's responsibilities. ITI employs a television broadcast technology known as Instructional Television Fixed Service. An associated audio teleconferencing system permits interaction by students at remote viewing locations with faculty in studio on campus.

The University Library

Library 229 (714) 773-2714

Chief among the learning resources on the campus is the University Library. The six-story building located in the center of the campus houses a collection of over 700,000 books and bound periodicals, as well as one and half million other items: government documents (federal, state, local, and international); maps; microforms; and non-print materials such as kits, videotapes, phonorecords, compact discs, audio tapes, and film strips. Books and other materials are selected through the joint efforts of instructional and library faculty to support the undergraduate and graduate programs of the University. In addition to these general collections, special and supplemental collections designed to support both the curriculum and instructionally-related research have been developed.

The student identification card issued by the University serves as a library card for checking out books and other materials. Cards must be validated each semester at the library circulation center. The loss or theft of the student ID, as well as any change of address, should be immediately reported at the library circulation counter; early reporting of a lost ID will reduce the risk of misuse of the card. Library users are responsible for the return of all materials charged out on their ID cards. Since all library materials are subject to recall after two weeks, they should be returned to the University Library if there is need to be absent from campus for more than this length of time.

Primary access to the University Library's holdings is provided by the electronic Online Public Access Catalog (OPAC). The OPAC provides access to books, government documents and other materials through author, title, subject and other indexes. The OPAC also provides a listing of materials required or recommended for course-related reading and available for limited loan periods through the Reserve Book Room. General information, such as the hours the Library is open, is also available on this file. One can search the OPAC not only on terminals in the Library building, but also through dial-up access from remote locations on and off campus.

Subject access to periodicals and similar types of literature is provided through printed indexes and abstracts, and through electronic CD-ROM databases housed in the Reference Section. Access to remote databases is provided through the Computerized Information Retrieval Service (CIRS), a fee-based service offered by the Reference Section.

As part of the curriculum, the University Library offers courses in bibliographic research, including Library 200 (Elements of Bibliographic Investigation). Tours and lectures for individual classes are given at the request of the faculty. In addition to formal instruction in bibliographic research, general and subject-specialized reference and research services are provided by the library faculty.

For the convenience of users photocopiers and microform readerprinters are available in locations throughout the University Library. These are operable with coins or electronically encoded copycards that may be purchased in the Library's lobby. Other specialized facilities include music listening rooms, videotape viewing equipment, group study rooms, and a microform reading area.

In addition to the many resources available on campus, mutual use agreements make accessible to students and faculty the library collections of the nineteen other libraries in the California State University system, the closest University of California campuses (Irvine and Riverside), and neighboring institutions such as Fullerton College. Intralibrary services provide easy access to library resources both at and from the Mission Viejo Campus. Interlibrary borrowing arrangements with major university and research libraries throughout the country further expand the resources available to the CSUF community.

More detailed information about the University Library and its services is available at the Reference Desk located on the first floor.

Student Academic Affairs



Academic Advisement Center

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The Academic Advisement Center provides information and guidance in the choice of an undergraduate major, a school of interest, or selection of elective and general education courses. It is the administrative center for undergraduate students who have not declared a major or school of interest. Refer to the Academic Advisement section for additional information.

Student Academic Services and University Outreach

Library (lower level) 18 (714) 773-2484

The primary responsibility of Student Academic Services and University Outreach is the recruitment and retention of students at California State University, Fullerton. Inherent to this mission is the strict attention that must be given to increasing the number and graduation rates of underrepresented students. Moreover, the unit is assigned much of the responsibility for coordinating institutional efforts in providing educational opportunity for all students. The students are something schools

The Student Academic Services and University Outreach Office develops and coordinates a comprehensive program of outreach services and activities which assist to make the university more visible, attractive, and accessible to all potential students. A number of programs have been consolidated under this office. These are described on the following pages.

Athletic Academic Services

Physical Education 130B (714) 773-3057

As an integral part of the CSUF student advising system, the Athletic Academic Coordinator's office provides advisement for student-athletes; provides referrals to campus academic support units; and conducts programs which are designed to assist student-athletes in meeting their academic goals.

Center for Internships and Cooperative Education

Langsdorf Hall 210 (714) 773-2171

The Center for Internships/Cooperative Education was established to offer students the opportunity to formally integrate academic training with practical work experience prior to graduation. The Internship/Co-op Program offers students an opportunity to expand their knowledge and skills in a "real work" situation which better prepares them to select a career and successfully enter the job market. Through academic study and practical experience, students can enhance their academic knowledge, personal development, and professional preparation. Other valuable benefits of an internship are to:

- 1. gain work experience;
- 2. network and develop industry contacts;
- 3. earn academic credit;
- 4. solidify academic and career goals;
- 5. earn money while learning:
- 6. explore various career options within a major.

The program involves the cooperative efforts of both faculty and employers in the creation of opportunities for students that fulfill academic and professional needs. Each internship/co-op is supervised and monitored by the employer, while faculty coordinators provide guidance to students to insure the academic integrity of the work experience.

There are two internship/co-op program options: parallel and alternate. Students can work part-time while attending regular classes or full-time for a semester and can continue classes the following semester. Most assignments are salaried positions and consequently assist the student to finance their educational expenses.

CSUF currently has 39 academic programs that offer internships/ co-op in fields from the arts to the sciences. To participate in the internship/co-op program a student must:

- 1. be at least in the junior year of study;
- 2. be in good academic standing;
- 3. receive approval from a faculty coordinator;
- 4. enroll in the departmental internship/co-op course.

The internship/co-op must be consistent with the goals of the student's academic discipline. In most departments up to six units of internship/co-op credit may be earned. With faculty coordinator approval, students may also be able to receive credit if currently employed in a job relating to their academic major. Students should not wait until their final semester to participate!

For further information, contact the Center for Internships/Cooperative Education. The Center is open 8:00 a.m. to 5:00 p.m., Monday through Friday.

Educational Opportunity Program

Library (lower level) 20 (714) 773-2784

The Educational Opportunity Program (EOP) is primarily a "Special Admissions" program available to legal residents of the state of California. EOP is designed to provide information regarding admission, financial assistance, and supportive services to prospective undergraduate students who have potential to perform satisfactorily at the university level, but who might be prevented from doing so because of economic, educational and environmental disadvantages.

EOP gives each of the students individual attention. It uses knowledge of the students' distinctive patterns of social behavior, learning styles, motivations, and aspirations to assist them in realizing their full potentials.

Advisement Services

The EOP advisement component, (See Student Academic Services), is one key to the effectiveness of the EOP. Peer mentors, working under the direction of professional staff, serve as important liaisons between each EOP student and the university as a whole. Assistance and guidance are provided to help the student resolve academic, social, financial and personal problems. The EOP component of the Academic Services Center also serves as a referral point to direct students to the appropriate support services, e.g. Financial Aid, Learning Assistance Resource Center, and Health Center.

Learning Assistance Resource Center (LARC)

Library (lower level) 38 (714) 773-3488

The Learning Assistance Resource Center (LARC), located on the lower level of the Library, offers a wide range of services for students who want to improve their academic skills. LARC services include:

- 1. Strategies for Learning classes to help students learn more and earn higher grades. Strategies classes emphasize use of appropriate study skills in general education courses (e.g. history, political science, biological science and chemistry).
- 2. Test preparation classes to help students prepare for the Entry Level Mathematics Examination, the California Basic Educational Skills Test and the Graduate Record Exam.

- 3. The Computer Assisted Instruction Lab to help students prepare for the ELM, GRE, and CBEST. In addition, there are selfhelp programs in mathematics, English grammar, and reading that students can use independently to learn new skills or to review old skills. Materials are also available to help students learn about other subjects such as political science, biology, history, and chemistry.
- 4. Workshops to help students improve their test-taking skills, reduce test-taking anxiety, and deal with stress related to testtaking.

Mentor Program

McCarthy Hall 33

The Mentor Program seeks to improve the interaction of individual students with university personnel by matching a student with a faculty or staff member in a mentoring relationship. Mentors provide encouragement to the students with whom they work in the following ways: (1) serving as role models, (2) helping to build self-esteem, (3) supporting the student's educational and career goals, (4) providing general counsel and advice, and (5) providing feedback on the student's progress.

Student Academic Services

Humanities 113 (714) 773-2288

An important component of the Educational Equity Programs (Student Affirmative Action and the Educational Opportunity Program) is Student Academic Services. These support services are designed to facilitate student adjustment, academic achievement and persistence at CSUF. Through individual advisement, counseling, workshops, and social activities, students are encouraged toward their educational goals. The center also provides referrals to other appropriate services and is an important liaison between each individual student and various university offices.

Student Affirmative Action

Library (lower level) 22 (714) 773-2086

Student Affirmative Action (SAA) is part of The California State University's systemwide Student Affirmative Action plan which was mandated by the California Legislature in 1984 under Assembly Concurrent Resolution No. 151. The intent of this resolution was to address the underrepresentation of ethnic minorities, women and economically disadvantaged students enrolled in California postsecondary institutions.

At Fullerton, the SAA program focuses on students from underrepresented groups who are academically qualified to meet the system's regular admission requirements. The program's major activities fall into two components: outreach and educational enhancement.

Outreach Services

Outreach services and activities to increase the enrollment of regularly admissible students from underrepresented groups to Cal State Fullerton is one of the responsibilities of SAA.

High School and community college students seeking admission to the university are provided information on Fullerton admissions' procedures, academic programs and student support services. Students are also provided individual advisement and assistance with application processes and information on financial aid and scholarships. Parents of prospective students are also invited to participate in outreach activities including a parent support group and information workshops to familiarize them with various segments of the university and promote their involvement in the college experience of their offspring.

The Intermediate Outreach Program works with ethnic minority students from local junior high schools in preparing them to enroll successfully and excel academically in college.

Educational Enhancement

Recognizing that students are more likely to succeed in an environment where they are treated with sensitivity and understanding, the SAA educational enhancement component works with faculty, staff and administrators to create a sensitive and supportive environment for minority and underrepresented students.

University Outreach/Relations with Schools

Library (lower level) 22 (714) 773-2086

The University Outreach Service Office develops and coordinates a comprehensive program of outreach services and activities to make the university more visible, attractive and accessible to all potential students. An overall goal of the office is to increase the enrollment of students at Cal State Fullerton with a special emphasis on students from underrepresented ethnic minority groups.

To accomplish this goal, outreach staff make presentations to high school and community college students, parents and counselors regarding Fullerton admissions procedures (including admission to the Educational Opportunity Program (EOP) and Student Affirmative Action (SAA), academic programs and student support services). Students are also provided individual advisement and assistance with application processes and financial aid procedures.

Special activities including campus tours, admissions workshops for parents and conferences for high school and community college counselors are also sponsored by the office.

In keeping with the university's commitment to increase the representation of ethnic minority and underrepresented students at Fullerton, special efforts are made to incorporate the unique needs of these students in the development and implementation of all outreach efforts.

Campus Tours

Library (lower level) 4A (714) 773-2360

To schedule a campus tour you may call from 8 a.m. to 5 p.m., Monday through Friday.

Tour hours are Monday through Thursday at 10 a.m. and again at 2 p.m., and Friday at 10 a.m. group and information wedshops to fundamen them with var-

A one day advance reservation is requested for individual campus tours. Group tours should be requested at least 30 days in advance. Tours are not available on holidays, weekends or evenings. Medical Manager of the established and and a second of the established and a second

Each individual tour lasts about an hour and covers all aspects of student life. Group tours are also about an hour long, but can include an orientation session to cover Admissions, EOP, Financial Aid, and student activities if given a two-week advance

Writing Center

Humanities 528 Man Jean Son M. H. add to (714) 773-3650

The Writing Center provides tutorial assistance primarily for students who are enrolled in English Department writing classes. However, tutors will also assist students who need help in writing papers for other university classes. Tutors offer individualized instruction, helping students write the kind of clear, concise prose necessary for acaemic and professional writing. While they will not proofread or edit papers, tutors do offer constructive suggestions designed to help the student master the techniques of proofreading and editing. The goal is to increase the student's competence, not to improve any given paper.

Tutors are also trained to help non-native speakers of English improve not only their writing but their speaking skills, and students may make appointments for conversation. If a student needs intensive work on grammar, one-to-one tutoring in this skill is available and can be supplemented with study materials and computer programs. Additionally, the Center has sample topics for the EWP which students may write on and then receive tutorial feedback prior to the exam.

Honors Programs

Dean's Honor List

Academic achievement is recognized with the publication each semester of a list of undergraduate students whose grade-point averages for the previous term are 3.5 or better for 12 units of graded course work. Students are notified in writing when they have earned this distinction.

General Education Honors

The General Education Honors Program offers students many of the educational benefits of a small college in the midst of the rich resources of a large university. The program's small class sizes provide challenging learning experiences, individualized attention from professors, and closer interaction with other students.

The program also gives students the opportunity to earn recognition for distinguished academic performance in general education courses. Students who successfully complete the requirements for honors in general education will have a notation placed on their transcripts. was bon agention I - ample umma D stall

In order to graduate with honors in general education, a student must: be accepted into the General Education Honors Program; complete 30 units of general education honors courses; maintain a grade-point average of 3.25 in all general education honors classes; complete the university's general education require-

For additional information, please refer to the General Education section of this catalog.

Lambda Alpha Zera - Encourages and stimulates superior Honors at Entrance

Honors at entrance are awarded to both freshman and transfer students who have demonstrated outstanding achievement in past academic work. For first-time freshmen with no previous college units earned, a grade point average of 3.5 on a four-point scale must be earned in the course work considered for admission to the university. Students who have completed fewer than 56 transferable semester units of credit must meet the grade-point average criteria for first-time freshmen and must also have earned a 3.5 grade-point average on all transferable college work attempted. Students who have completed 56 or more transferable semester units are eligible if a grade-point average of 3.5 is earned in all transferable college work completed.

Honors at Graduation

Honors at graduation for baccalaureate recipients are based on overall performance and have been defined by the Academic Senate in three classifications:

With honors g	.p.a. 3.50-3.74
With high honors g	
With highest honors g	.p.a. 3.90-4.00

Honor Societies

Chapters of eleven honor societies have been chartered at California State University, Fullerton to recognize students who demonstrate superior scholarship and leadership in specific academic fields.

Alpha Kappa Delta — Promotes and recognizes high scholastic achievement among junior, seniors and graduate students in sociology.

Beta Alpha Psi — Encourages and gives recognition to scholastic and professional excellence in the field of accounting.

Beta Gamma Sigma — Encourages and rewards scholarship and accomplishment among students of business and administration.

Eta Kappa Nu — Recognizes students in electrical engineering distinguished by scholarship, activities, leadership, and exemplary character, and helps these students progress by association with alumni.

Kappa Tau Alpha —Serves as a vehicle of recognition for oustanding students in the field of mass communication.

Lambda Alpha Zeta — Encourages and stimulates superior scholarship and professionalism among students in anthropology.

Mu Phi Epsilon — Promotes high standards in education and performance in the professional world of music.

Omicron Delta Epsilon — Recognizes high scholastic achievement in economics.

Phi Alpha Theta — Serves as a vehicle of recognition for outstanding students in the field of history.

Psi Chi — Advances and maintains scholarship in the science of psychology.

Tau Beta Chi — Promotes and encourages scholastic excellence among top junior and senior engineering students.

The following four societies also recognize specialized groups of people, but are not limited to a specific academic field:

Golden Key National Honor Society — Promotes and recognizes scholastic excellence and service among juniors and seniors at CSUF.

Phi Beta Delta — Honors international students, faculty who have studied or done research abroad, and American students who have studied abroad.

Phi Delta Gamma — Promotes the highest professional ideals among women in graduate school.

Phi Kappa Phi — Provides an honor society dedicated to the unity and democracy of education and open to honor students from all departments of American university and colleges.

President's Opportunity Scholars Program

California State University, Fullerton established the President's Opportunity Scholars Program as a means of recognizing the academic and extracurricular excellence of a select group of students. Its special focus is outstanding students from the current year of high school graduates who are also members of minority groups which are underrepresented in higher education — primarily black and Hispanic students. Scholars receive \$1,000 per year for four years while maintaining eligibility in the program.

To be eligible for consideration, an applicant must:

- · Be a legal resident of California.
- Have a grade-point average of at least 3.2 in all academic subjects for the 10th, 11th and first half of the 12th grades.
- Earn a Scholastic Aptitude Test total score of 900 or higher, or an American College Test composite score of 22 or higher.
- Graduate from high school in the class year preceding the fall semester for which applying.
- Document significant contributions to school and community activities during the high school years.
- · Verify outstanding individual achievement.
- File for admission to Cal State Fullerton before applying for a President's Opportunity Scholars award.
- Submit a completed President's Opportunity Scholars application form and arrange for the Secondary School Report and Description and Evaluation of Student forms to be submitted by the high school principal or a counselor and by a faculty member.

President's Scholars Program

California State University, Fullerton established the President's Scholars Program as a means of recognizing the academic and extracurricular excellence of a select group of students. Funded by the President's Associates, the program began in 1979 with the first 10 President's Scholars. Each year 10 additional President's Scholars are selected with the potential eligibility of all chosen individuals extending for a total of four years. President's Scholars receive \$1,000 a year.

To be eligible for consideration, an applicant must:

- · Be a legal resident of California.
- · Present a grade-point average of at least 3.75 in all academic subjects for the 10th, 11th and first half of the 12th grades.
- · Earn a Scholastic Aptitude Test total score of 1150 or higher, or an American College Test composite score of 28 or higher.

- Graduate from high school.
- · Verify outstanding individual achievement.
- Document significant contributions to school and community activities during the high school years.
- · File for admission to Cal State Fullerton before applying for a President's Scholars award.
- · Submit a completed President's Scholars application form and arrange for the Secondary School Report and Description and Evaluation of Student forms to be submitted by the high school principal or a counselor and by a faculty member.

Application forms for both Scholars Programs are available by telephoning (714) 773-2010 or by writing the President's Scholars Screening Committee, President's Scholars Program, Library 20, California State University, Fullerton, CA 92634.

enter for Governmental Studies

Institutes and Centers

California Desert Studies Consortium

Faculty Terrace 303 (714) 773-2428

The California Desert Studies Consortium consists of seven California State University campuses including Dominguez Hills, Fullerton, Long Beach, Los Angeles, Northridge, Pomona, and San Bernardino. The primary objectives of this consortium are to promote and provide physical and academic support for undergraduate educational programs in a variety of disciplines and to better understand and manage the physical and biological aspects of desert environments. The CSU Desert Studies Center provides living accommodations, laboratory space, classrooms, and library facilities for over 100 undergraduates at Soda Springs in the Mojave Desert, a location central to all high desert study areas.

Center for Economic Education

Langsdorf Hall 530 (714) 773-2248

The Center for Economic Education is one of many such centers at colleges and universities in the United States working with the Joint Council on Economics Education at the national level and the California Council on Economic Education to expand economic understanding. Center programs include services to schools and colleges, individual educators, and the community; research and professional training; and operation of an economic education information center. The center is located in the School of Business Administration and Economics.

Center for Governmental Studies

Education Classroom 424 (714) 773-3521

The Center for Governmental Studies supports research, training and publication which assist governmental, professional and civic groups. It is housed in the Political Science Department and draws upon departmental, community and alumni expertise. The Institute publishes monographs and books, sponsors training programs, and supports theoretical and applied research which are of interest to public policy makers. Institute funds also assist in supporting the teaching mission of the department.



Center for International Business

Langsdorf Hall 626 (714) 773-2223

The need for an international dimension to business education is underscored by the importance of international business operations to domestic firms and the development of multinational firms and agencies. Equally important is a growing awareness of the diversity among the world's cultures and economies, and an understanding of an unavoidable interdependence between nations. The International Business Center has undertaken to meet these challenges in the international area by developing international business programs with the School of Business Administration and Economics.

Environmental Institute

McCarthy Hall 103 (714) 773-2594

The Environmental Institute promotes interdisciplinary research, education and study, and dissemination of information concerning the environment. Particular emphasis is placed on the examination of environmental problems for the purpose of providing information and analyses concerning policy alternatives. The institute seeks funding to support research, sponsor conferences and seminars and prepare environmental studies and reports of interest to the academic, governmental, and general communities. Whenever possible, the institute's activities are structured to allow the participation of graduate and undergraduate students! when the students send and beat many

Foreign Language Laboratory Humanities 325 has annually standing by landlessing sold

(714) 773-2153 served of solves visualines solves Offee

Instructional technology in the Department of Foreign Languages changed dramatically in 1987 when an antiquated reel-toreel audio lab was replaced by a state-of-the-art 36-station Tandberg IS-10 audio tape lab. Attached to the audio tape facility there is a new 12-station laboratory for computer-assisted language learning. Here, students in selected classes use computer programs to learn grammar, idioms, and vocabulary as well as to write compositions in foreign languages. Additional hardware includes a powerful Xerox 6085 computer and laser printer capable of displaying and printing not only the Roman alphabets but also Russian, Chinese and Japanese.

Foreign Language broadcasts provide students with authentic and interesting supplements to classroom instruction. To facilitate such programming, the laboratory has special video units that accommodate recordings made in foreign countries. Interactive videodiscs, the latest in a series of technological enhancements to the study of foreign languages, are also available for classroom and individual use.

Humanities Institute

Humanities 810L (714) 773-2482/3474

The California State University, Fullerton Humanities Institute promotes scholarship and study in the humanities disciplines and encourages investigation of pedagogical advances in the humanities. The institute is engaged in an on-going series of projects designed to create instructional materials and programming to enhance humanities instruction at all levels of the educational system within the region served by California State University, Fullerton,

Institute activities are planned and coordinated by an intersegmental advisory board comprised of representatives of both public and private educational institutions at the K-12, community college and university level. The Institute has just published an annotated resource guide for teachers of the humanities in Orange County which includes information on a broad variety of humanities resources such as art museums, colleges and universities, consulates, historic sites, historical and cultural organizations, libraries, museums, and performing arts centers. Also included is a select annotated bibliography of other resource publications. In all mans to not a manufacture and a section (1) and not membership, affiliated departments, the University, and to the

A second project was undertaken in response to a request from the California State Department of Education and is sponsored by the California Humanities Project. It is an institute for social science teachers at the 6th and 7th grade level, and is designed to provide them with background information on the new state framework for history and social science teachers in the elementary school. Within that general context, the institute will focus on materials aimed at enhancing the teachers' implementation of the Middle East segment of the framework, specifically in the areas of art history, religion, history, and geography.

Infant and Child Study Center

Humanities 519 (714) 773-2147

The Infant and Child Study Center in the Department of Psychology supports the research and instructional activities of faculty and students in developmental psychology. Unique opportunities are provided to students in both research training and applied developmental psychology. Programmatic research conducted at the center includes: (1) longitudinal assessment of the relationships between home environment, mental development and school readiness; (2) experimental analysis of perceptual and cognitive abilities; (3) life-span changes in memory and information processing; (4) learning disabilities in children and adults; (5) memory strategy instruction across the life-span; (6) development of cerebral hemisphere specialization; and (7) parent-child computer learning activities.

Institute of Geophysics

McCarthy Hall 263 (714) 773-3882

The Institute of Geophysics is an interdisciplinary organization currently comprised of faculty members from the Departments of Geological Sciences and Physics. It was established to foster the communication of ideas and information; encourage interdisciplinary research; and improve instruction in geophysics. Membership is open to all faculty members who are interested in aspects of geophysics.

Institute for Molecular Biology and Nutrition

McCarthy Hall 282 (714) 773-3614

The Institute for Molecular Biology and Nutrition is an interdisciplinary organization comprised of faculty members from the Departments of Biological Science, and Chemistry and Biochemistry. The mission of the Institute is the exploration of ideas and problems concerning cell and molecular life science with special emphasis on understanding the biochemical basis of nutrition by: (1) fostering communication of scientific ideas to its membership, affiliated departments, the University, and to the community at large; (2) promoting active research on cellular and molecular problems; (3) encouraging student research in affiliation with members of the Institute; (4) development of courses related to the Institute's mission which benefit from the unique interdisciplinary approach; and (5) establishment of the Biotechnology Minor.

The Institute sponsors a series of special seminars and symposia featuring distinguished scientists of national and international renown.

Laboratory of Phonetic Research

Education Classroom 630D

(714) 773-2526

(714) 773-2441

The Laboratory of Phonetic Research is a research and training facility in the Department of Linguistics. It is equipped with electromechanical facilities for the study of human speech, recording equipment, and an extensive collection of tape recordings of lesser known languages and dialects. Its objectives are twofold:

Instruction. To provide beginning students with teaching, training and experience in phonological analysis.

Research. To provide advanced students and faculty with facilities for research in phonetics and phonology.

The Laboratory also serves as the editorial home of the California Linguistic Newsletter.

Ruby Gerontology Center

Ruby Gerontology Center 8 (714) 449-7007

The Charles L. and Rachael E. Ruby Gerontology Center serves as a forum for intellectual activity and creative scholarship in the area of gerontology. The Center houses the activities of the Continuing Learning Experience, the Gerontology Research Institute, and is a resource center on aging for the Orange County region. The Center's goals include: promoting educational programs concerning adult development and aging, developing productive intergenerational activities in education and research, fostering cross-disciplinary research on topics related to aging and later life, providing opportunities for lifelong learning, and expanding opportunities for professional growth and development for those interested in gerontology.

Social Science Research Center

Humanities 512 (714) 773-2202

The Social Science Research Center supports the instructional activities and research of the faculty and students in the School of Humanities and Social Sciences. The SSRC has three broad mission areas: (1) Instructional Support, (2) Research Support, and (3) Community Service. The facility provides instructional support through courses and workshops offered in the Microcomputer Teaching Laboratory. Students and faculty have access to computer workstations in an open computer laboratory during normal university hours and on weekends. Research activities of the faculty and students are supported through consultation with the professional and graduate assistant staff of the SSRC. The SSRC provides community service to agencies and organizations within Orange County in the areas of survey research, program evaluation and statistical analysis. The community service activities also provide instructional and research opportunities for the faculty and students.

Southern California Ocean Studies Institute

McCarthy Hall 282 (714) 773-3614 and the second second by any significant old

The Southern California Ocean Studies Institute, which consists of six State University campuses (Dominguez Hills, Fullerton, Long Beach, Los Angeles, Northridge, Pomona), participates in training managers and scientists and in educating the general public by coordinating and facilitating marine educational and research activities. It provides facilities for introducing students to the marine environment or for intensive participation by students pursuing professional programs. The major facility is the R. V. Yellowfin (85-foot vessel) which is used by classes and research

programs in biology, geology and ocean engineering. In addition the Institute serves as an educational and research liaison between regions, states and nations.

Sport and Movement Institute

Physical Education 134 (714) 773-3316

The purpose of the Sport and Movement Institute is to promote an atmosphere congenial to research, creative activity, and services concerned with human movement and its related phenomena. Specifically, the organization endeavors to: (1) provide services of evaluation, consultation and advisement; (2) foster and encourage the generation and communication of ideas and information; (3) interpret and facilitate the practical application of research findings; (4) provide opportunities for individuals and community groups to participate in activities of the Institute such as clinics, workshops, seminars, etc.; (5) promote and support research and other scholarly activities on the part of the member-

Tucker Wildlife Sanctuary

McCarthy Hall 207H (714) 649-2760 (714) 773-3451

The Tucker Wildlife Sanctuary operates as a nonprofit California State University, Fullerton Foundation agency. Located in Modjeska Canyon in the Santa Ana Mountains, the sanctuary provides for a program of continuing educational service to the community; a research center for biological field studies; a facility for teacher education in nature interpretation and conservation education; and a center for training students planning to enter into the public service field of nature interpretation.

programs in biology, geology and ocean engineering. In addition the Institute serves as an educational and research liaison between regions, states and nations.

Sport and Movement Institute

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Student Affairs

Classroom activity is devoted to the academic development of the learner. Student Affairs offers programs which support the academic program and simultaneously provide students with services and opportunities for personal growth. Some Student Affairs programs such as housing and financial aid emphasize their service and educationally supportive roles; others, like counseling, accentuate their developmental aspects. The opportunities offered by the university's Student Affairs program vary from the traditional social activities to lectures and concerts funded through the Associated Students. Developmental activities include the exploration of personal and vocational life styles and leadership and training.

Student Affairs are comprised of Academic Appeals, the Adult Reentry Center, the Career Development Center, Disabled Student Services, Financial Aid, Health and Counseling Service, Housing Services and Residence Life, International Education and Exchange, Testing and Research, University Activities Center, University Center (Student Union), and Women's Center.

Vice President for Student Affairs

Langsdorf Hall 810 (714) 773-3221

The vice president's office coordinates and supervises all student affairs services and programs. The vice president is responsible for the quality of student life on the campus and works with faculty, administration and students to improve the campus environment. This office is also charged with administering the university's academic appeals procedure and the student disciplinary codes.

Academic Appeals

Langsdorf Hall 810 (714) 773-3836

Students who have grade disputes are encouraged to make every effort to resolve the issue informally by meeting with the instructor, department chair, and dean of the school. Students who feel they have been unsuccessful at resolving the issue informally, should contact the coordinator of academic appeals, who will work to resolve the dispute informally and provide information and clarification about university policies. Students are encouraged to contact the coordinator if they have questions about the academic appeals process.



Adult Reentry Center

McCarthy Hall 33 (714) 773-3889

The Adult Reentry Center (ARC) serves adults who, after a break in their education, are considering beginning or continuing their college education. The center provides support and guidance for currently enrolled reentry students and others whose needs differ from those of the traditional university student.

ARC offers a variety of programs which include support counseling, workshops, support groups and referrals to staff and faculty. The center's counselors and programs can help students and prospective students to clarify their goals and determine if a university education is the appropriate method for attaining those goals. The center also provides information and assistance with university application and registration procedures as well as personal, academic and career counseling. Special programs, groups, workshops, films and discussions which focus on the special needs of reentry students are presented each semester. Evening hours are always available.

Career Development Center

Langsdorf Hall 208 (714) 773-3121

The Career Development Center provides career counseling, personal counseling and employment services. It is structured to meet the wide range of students' career needs and to help explore, develop and realize career plans. The center has designed many programs and services tailored to fit career exploration, planning and employment needs.

The center can help with career planning and research or provide job search skills and employment opportunities. Because the career planning process involves many variables, the CDC draws upon both on- and off-campus resources. Counselors work closely with employers and serve on task forces with faculty to develop career programs relevant to educational experiences. Whether a student is just beginning career research or is ready to look for a job, the CDC has counselors and programs that will help define and achieve career goals.

Counseling when member output of the state o

CDC professionals can help to identify interests, skills and values and their relationship to career opportunities through counseling and vocational testing. In addition to career issues, CDC counselors are trained in personal counseling. An individual, confidential appointment can help clarify concerns and develop a plan of action. Daily Rynecology, or he following lields from cology, or he following

Seminars and Workshops

Group sessions examine topics such as career planning, resume writing, job search techniques, interview skills and other career related subjects throughout the semester. Many of these seminars are designed for specific academic areas. In addition, workshops in personal development and life skills are offered in the center. See the CDC Calendar published every semester for current information.

Career Resource Library

The center has an extensive collection of company, career search, occupational and labor market information to help with career research. The library includes books, pamphlets, brochures, as well as audio and video tapes.

Part-Time Employment

The center has listings of part-time, summer and temporary employment which are received each day from local employers.

Career Employment

Employment listings and recorded job information are available to students and graduates seeking full-time career opportunities. The jobs are found in government agencies, business, industry, manufacturing and service industries.

On Campus Recruitment

Several hundred employers send recruiters to the CDC each fall and spring to recruit graduating seniors, graduate students and alumni.

Educational Placement

The center provides complete services for candidates seeking employment in educational institutions including: placement counseling, placement file service, position listings and a published bulletin of administrative openings. ESTERTY (ALS)

Minority Services

The CDC is aware of the career needs of minority students; counselors work closely with employers, clubs and professional organizations to provide services and opportunities that will help meet these needs.

SIGI PLUS™

SIGIPLUS™ (pronounced "Siggy") is a computer-based System of Interactive Guidance and Information that will help make career decisions. The program will help examine values, explore career options and master decision-making strategies.

Career Class

Career Exploration and Life Planning (Counseling 252) is a three unit course designed to facilitate career and educational decision making. Specific objectives of the class include increasing awareness of self, the world of work, relationships between college majors and occupations, and job search skills. See the current Class Schedule for further information.

Alumni Career Bank

The Alumni Career Bank is composed of several hundred CSUF alumni who have volunteered to share their work experiences with students. Over 100 career areas and nearly every major and program are represented in the bank.

Career Resource Library

Walk-In Counselor

Throughout the day a CDC counselor is available to help define career needs and suggest appropriate CDC services. This is designed to answer short questions and provide information.

The services of the Career Development Center are available without cost to currently enrolled students. Services are also available to alumni without charge for six months following graduation. After that period, alumni will be charged a nominal fee for services.

The university will furnish, upon request, information concerning the subsequent employment of graduates from programs or courses of study which have the purpose of preparing students for a particular career field. This information includes data concerning average starting salary and the percentage of previously enrolled students who obtained employment. The information provided may include data collected from either graduates of the campus or graduates of all campuses in The California State University system. Copies of the published information are available in the center.

Financial Aid

McCarthy Hall 63 (714) 773-3125 sportago aviseminiarlas la mialfud badat

The Financial Aid Office is committed to providing eligible students with the necessary financial aid resources to ensure their academic success. The office provides financial assistance to approximately 6,300 students annually and administers over \$17 million each year through the following student financial assistance programs:

Supplemental Loans for Students (SLS) Parent Loan (PLUS) Program Perkins Loan (formerly NDSL) Stafford Loan (formerly GSL) Pell Grant and state and lamental and assemble around Supplemental Educational Opportunity Grant Bureau of Indian Affairs Grant
State University Grant Program State University Grant Program Educational Opportunity Program Grant College Work Study Program

Cal Grant A (State Scholarship) Cal Grant B (College Opportunity Grant) Graduate Fellowship Private Scholarship Emergency Loan Fund

For further information concerning financial aid programs available at the university see the Registration Procedures section of this catalog or call the Financial Aid Office.

Disabled Student Services

Library 113 (714) 773-3117

Disabled Student Services provides assistance and offers special services to all disabled students. The purpose of this program is to make all of the university's educational, cultural, social and physical facilities and programs available to students with orthopedic, perceptual and/or learning disabilities. The program serves as a centralized source of information and provides students with individual attention. The professional and support staff are experienced with the particular needs of persons with disabilities.

The program works in close cooperation with other university departments in order to provide a full range of services. These services include classroom support services (readers, notetakers, tutors, interpreters for the deaf/hearing impaired, alternative testing) counseling, handicapped parking, application assistance and priority registration, academic advisement, career counseling and job-placement, housing and transportation, health services for acute illness and advocacy.

The program coordinates and provides diagnostic assessment, counseling, advisement, advocacy and supportive services for students with learning disabilities.

The program needs and encourages involvement and input from the students it serves in order to maintain a responsive and quality program. Appropriate the program of the state of

Information regarding special facilities and services available to disabled students may be obtained from the Office of Disabled Student Services.

Health and Counseling Service

Student Health Center (714) 773-2800

The Student Health and Counseling Service is equipped to care for a wide range of episodic outpatient medical problems.

The Health and Counseling Service is staffed by physicians, nurse practitioners, registered nurses, laboratory and radiology technologists, a pharmacist, and a physical therapist. Most of the providers are primary care clinicians. The staff also includes specialists in the following fields: gynecology, orthopedics, der-

matology, allergology, podiatry, health education, reproductive health, and nutrition counseling. Students who encounter emotional or personal problems may come to the Counseling and Psychological Services Department: Professional psychological counselors and a psychiatrist are available when needed.

All medical records are confidential; no information will be released without the patient's written permission, except in the rare case of a court subpoena.

The cost of care provided by the Health and Counseling Service, except for a few specific fees, has been paid through student fees and by the State of California. Every registered student is eligible for care. The Student Health and Counseling Service cannot, however, meet all medical needs. Students are urged to obtain health insurance, if they do not already have adequate private insurance. A policy is offered on campus through the Associated Students, Inc.

Housing Services and Residence Life

Cypress House 101 (714) 773-2168

The University welcomed its first residence students in spring, 1988. Up to 396 students are accommodated in 66 Residence Hall suites. Each 3 bedroom, 2 bath suite accommodates 6 residents, is air-conditioned, carpeted and fully furnished. This is the first phase of a two-phase construction program that will eventually house up to 800 students on campus.

The housing complex offers a study lounge, computer and typing rooms, a weight room, a multi-purpose room and coin-operated washers and dryers. Barbecue grills, a picnic area, a basketball court, a sand volleyball court, video game machines, billiards, ping pong, a large screen television set and VCR are also available for residents.

The Housing and Residence Life Office also assists students in their search for off-campus housing. The office provides updated listings of local apartment complexes. Bulletin boards are available for posting cards by students seeking roommates or accommodations. Other listings highlight rooms for rent in private homes and rooms in exchange for work. Additional information is available on model rental agreements and on referrals for community housing agencies handling landlord/tenant law.

Residence hall space is available for summer session students and for educationally related groups sponsoring workshops and programs on campus. In dameser inellesses that self-bit solood 908

Contact the campus Housing and Residence Life Office for further information.

International Education and Exchange

McCarthy Hall 79 most chall that a december of the most received and the most received a (714) 773-2787

California State University, Fullerton is a community of people from many nations and cultures. The Office of International Education and Exchange is dedicated to promoting the exchange of knowledge and experience within the multicultural campus community and with the world at large. The office provides information and assistance for all international students attending CSUF and for U.S. students planning to study abroad.

International Students

Over 1000 students from nearly 70 countries study at CSUF as international students, and the staff of the Office of International Education and Exchange endeavors to provide them with a home away from home. The office provides visa eligibility documents, pre-arrival information, and orientation to newly admitted students. The door is always open for students to meet with an adviser to discuss academic concerns, cultural adjustment, immigration matters or just to chat.

Campus activities such as international dinners and discussions occur throughout the year. The office coordinates programs in the community, such as the Fullerton International Friendship Council.

Study, Work and Travel Abroad

A year or semester overseas can provide an invaluable educational experience. Cultural awareness, language skills and an in-depth knowledge of one's field from an international perspective are but a few of the many benefits of studying abroad. A well planned program offers career advantages with the increasingly multinational and multicultural organizations and communities of southern California.

The California State University International Programs is an academic year program with 25 centers in 15 countries. International Programs participants remain enrolled at CSUF, earn residential credit, and pay only home campus fees. All personal expenses are the student's responsibility.

CSUF has established campus-based direct exchange programs with universities in the Soviet Union, China, France, Japan and Mexico. Application and admission requirements vary somewhat by country. No overseas tuition is charged; students pay regular CSUF campus fees, plus international transportation, living, and related expenses. Semester programs are available. Detailed information may be found in the "International Programs" section of this catalog.

Information on the International Programs as well as a general library on study, work, and travel abroad are available in the International Education Office. The Research Institute to Research

Intercultural Development Center

The Intercultural Development Center, located in the Library, Room 4-B, offers educational support programs and services for foreign-born students, particularly recent immigrants and refugees. Students will be offered programs such as employment skills workshops, peer support groups, traditional cultural celebrations, and English Writing Proficiency Exam preparation sessions.

The Intercultural Development Center builds cross-cultural awareness in the campus community by serving as a resource center with published materials and presentations on diverse cultures. The Center is well-equipped to assist Vietnamese students with academic and personal problems.

School Based Student Affairs

The assistant deans work in collaboration with the Vice President for Student Affairs and the deans in each school and the director of the Mission Viejo Campus, to deliver services which support student progress toward degree and professional objectives. In addition, the assistant deans design and coordinate programs with faculty, students and administration which enrich the academic environment and enhance student development within the schools.

Responsibilities of the assistant deans may include counseling students with personal and academic questions, coordinating orientation and retention programs, advising student groups, administering scholarship programs, and developing alumni and community support for the school.

Testing and Research

Langsdorf Hall 206 (714) 773-3838

The Testing Center provides a variety of testing and research services to the university.

The center supports the counseling services available through the Career Development Center and the Student Health and Counseling Service by administering a variety of psychological tests designed to help students gain a better understanding of themselves and of their goals and interests. These tests are administered on an individual basis in response to counselor referrals. The state of the state of

The center conducts ongoing research and evaluation of university testing programs and consults with members of the university community regarding the design and conduct of testing-related studies and survey research. The center also designs and conducts surveys of student needs, attitudes, and other characteristics.

National group testing programs related to undergraduate and graduate school admissions and teacher certification are also coordinated by the center. Information on the following tests is available in the center:

American College Test (ACT) Scholastic Aptitude Test (SAT) Graduate Record Examination (GRE) Graduate Management Admission Test (GMAT) Law School Admission Test (LSAT) Medical College Admission Test (MCAT) National Teacher Examination (NTE) California Basic Educational Skills Test (CBEST) Test of English as a Foreign Language (TOEFL)

The center also administers other group tests related to CSUF degree requirements. Information on these tests is available in the center:

English Placement Test (EPT) Entry Level Mathematics (ELM) English Equivalency Examination (EEE) Examination in Writing Proficiency (EWP) Accounting Qualifying Exam (AQE) Mathematics Qualifying Examination (MQE)

Women's Center

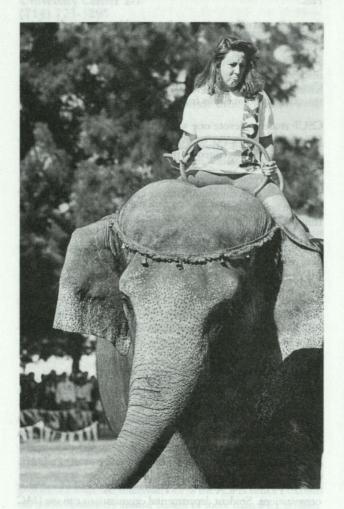
McCarthy Hall 33 (714) 773-3928

The Women's Center's primary focus is to foster a greater awareness of women's issues. Its goal is to promote gender equity through improved communication between women and men. It is open to all interested students. The center's hours are from 8 a.m. to 5 p.m. Monday through Friday. Evening appointments are always available.

The Women's Center is a place for all students — women and men — a place to get help with any problem you may have — a place to study, relax and make new friends. In short, an excellent center for students to receive support, information and resources to help them explore the many options available to them.

Programs and services include individual counseling, speakers, films, skill-building workshops, developmental groups, resource information and referrals. I solling of an angued gricum

The Women's Center is closely involved with the minor in Women's Studies. The center houses a Women's Studies Library of over 800 books and files with excellent research materials. A listing of film and tape titles round out the collection. The center also gathers and maintains information on local women's events. news and networks.



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Student Activities

The division of Student Affairs provides students with opportunities to teach and to learn and are not limited to the classroom at California State University, Fullerton. Students taking full advantage of the many educational opportunities at the university find themselves attending lectures, concerts and seminars offered as part of a well-developed co-curriculum on campus. Students not only attend events, but they participate in the planning and implementation of a full slate of activities held throughout the year. Through their participation, students experiment with new interests and broaden their experience with existing interests. Many clubs and organizations exist in the academic disciplines which encourage close contact between students and faculty.

University Activities Center

University Center 2-43 (714) 773-3211

From New Student Orientation through commencement the University Activities serves as a resource for students seeking to develop their management, leadership and organizational skills. New Student Orientation is coordinated by the center and held each semester during the week prior to the beginning of classes. Since orientation is staffed by students, this program is an excellent way for new students to take advantage of training resources and become involved with the university.

Opportunities for involvement in the center's programs are open to all students according to their interests, abilities and time. Staff members at the Activities Center advise many student organizations and are available as resources in the formation of new groups and strengthening existing groups. Workshops on team building, organizational behavior, leadership styles, group dynamics and event programming are available by contacting the office. Lastona abayese and or materials with an estimated

meetings, help in program selectishe in inscribing throwsher aliabil Leadership Opportunities

Workshops and training programs are available to teach and encourage students who may want to learn or refine leadership skills. Practical application of these skills is available through the approximately 200 campus clubs and organizations. Academic and professional organizations are either closely affiliated with academic areas at Cal State Fullerton or have national professional recognition. These groups offer students a chance to identify with faculty and community members who have similar career interests. commercial start than the reer interests.

Councils and task forces are formed by representatives of other officially recognized organizations. These groups often have a specific purpose or are formed to solve a particular problem.

Cultural organizations seek to present ethnic, minority and cultural programs for the Cal State Fullerton campus. Many opportunities are created for the development of leadership and programming skills in this area because of the diversity of the cultures represented on campus.

Greek letter fraternities and sororities with national affiliation also exist at Cal State Fullerton. With a choice from thirteen fraternities and eight sororities, Cal State Fullerton students can usually find a group with which they want to affiliate. Rush information is available at the University Activities Center.

Many religious organizations have been formed at Cal State Fullerton with representation from a wide variety of religious persuasions. Groups which are predominantly political in nature and those whose goal is service to others also enjoy student support.

Club sports, recreation and leisure groups in a variety of recreational programs are very active on campus. Some are competitive as teams and others offer students a chance to develop individual skills which can be used as lifetime leisure activities.

AS Productions University Center M-17 (714) 773-3501

Entertainment possibilities are endless with Associated Students Productions at CSUF. ASP consists of six committees composed of student volunteers whose common interest is to keep the campus alive with quality entertainment and educational presentations.

Any student can apply to be a program director or assistant director. Candidates for these posts are appointed by the ASI president and are approved by the board of directors. Their responsibilities include planning and implementing programs, managing budgets, and training committee members.

Committee members are student volunteers who attend regular meetings, help in program selection and work at the actual events. Joining a committee is a great way to have fun while learning leadership, communication and organization skills, as well as making a lot of new friends.

Students can join an AS Productions committee anytime during the year by contacting the ASP office.

AS Productions coordinates the film series, lecture series and concert series committees. The film series presents a variety of contemporary, classic and foreign movies to students at a cost lower than that charged by most commercial theaters. The speaker series provides the campus with prominent speakers who create a forum for issues and topics that are of importance to the campus and to the community. Noontime and major concerts provide a showcase of original music ranging from classical to rock. Major concerts are usually held indoors while all noontime concerts are performed at the Becker Amphitheatre.

Pub entertainment features bands from local nightclubs in the afternoon as well as evening concerts in the University Center

Special Events offers unique and memorable events such as fairs, theatre groups and other special entertainment.

Camp Titan

Camp Titan is a service opportunity for students who enjoy the special feeling that comes from sharing their time with children.

CSUF students devote one week of their time each June to be friends and counselors to over 120 children attending Camp Titan, which is accredited by the American Camp Association.

The children range in age from 5 to 13 years and are selected on a referral basis from community service agencies. Because all of the children are underprivileged, they attend camp at no cost to their

Students enjoy a special time of helping these children develop positive attitudes about themselves. The week is as much fun for the counselors as it is for the children.

Students who are interested in a week of hiking, crafts, sitting around a campfire, swimming and spending time with children, can obtain further information about Camp Titan from the University Activities Center.

Departmental Association Council

The Departmental Association Council (DAC) is the organization formed by the Associated Students to represent the academic associations at CSUF. DAC is composed of student delegates who represent all of the academic student organizations within each department. By being a member of his or her own departmental student organization the student is a part of the DAC.

The DAC provides funding for programs originated by member organizations. Student departmental organizations can use DAC funds to provide speakers, films and presentations that enhance the classroom experience.

Individual students can receive funds for use in conducting research. All CSUF students are eligible to apply for such funds.

The DAC provides a forum for discussion of student ideas and concerns. All students are welcome to attend council meetings.

For more information on how to get involved in the DAC, contact the University Activities Center.

Multicultural Council

The Multicultural Council is composed of the student cultural clubs and organizations at CSUF. It provides funds to student groups that represent ethnic programs and for educational programs that have cultural bases. For more information about the Multicultural Council contact the University Activities Center.

Associated Students

University Center 2-7 (714) 773-3295

The Associated Students, Inc. is a campus involvement connection at California State University, Fullerton. ASI offers a variety of learning experiences through its government, programs and services. Many campus special events are the product of student efforts to bring students new educational opportunities, to teach them about the campus, and to provide them a friendly, social atmosphere at CSUF.

ASI is a non-profit corporation supported by the activity fee students pay through registration each semester. By paying this fee, students are automatically a member of the Associated Students, Inc. The purpose of the corporation is to provide academic and co-curricular programs and services for students. When students are involved in ASI they are a part of an energetic, productive group, learning valuable organization and communication skills that can augment their personal and professional growth.

ASI Government

The ASI government controls the actions of the corporation; it is a powerful, active organization that has use for students' talents and skills. To apply for a position or find out more about student government, visit the ASI government office in the University Center.

ASI President and Vice President

The ASI president and vice president are chosen through student elections each spring and manage the corporation and its employees and volunteers. These officers represent students' needs and interests to CSUF's faculty and administration and to the surrounding community. They also participate in several committees. Along with the executive staff, the president and vice president submit recommendations to the ASI Board of Directors on the corporation's annual budget of more than \$4.1 million.

ASI Executive Staff

The executive staff works with the president and vice president to direct the programs and operation of the corporation. All executive staff members are appointed by the ASI president. Students may apply for these positions in the ASI government office.

The ASI vice president for finance coordinates the budget process. The vice president for administration recruits students for presidential appointments and implements special projects. The director of legislative affairs is the CSUF representative to the California State Student Association. This statewide organization influences decisions about education, fee schedules and related topics. The public relations director is responsible for marketing the corporation and communicating with the campus community. Student volunteers are assigned specific duties according to the needs of the corporation. Assessment Assessment

ASI Board of Directors

The ASI Board of Directors is composed of three directors from each school who are elected to serve one-year terms. The ASI president, vice president, vice president for finance and administrator, one faculty council representative and one appointee of the university president also sit on the board. Directors also sit on various board subcommittees and other university committees.

These directors represent the student body and work with the executive staff to implement programs that fulfill students' academic and co-curricular needs. They deal with issues regarding the business and affairs of the corporation, including approving budgets and appointments, authorizing business contracts, and issuing policy statements for administrative purposes.

The weekly meetings of the ASI board are held in the Legislative Chambers in the University Center. All students are welcome to attend. Board seats are open to all students. Election applications are available at the midpoint of each semester in the ASI government office in University Center.

ASI Judicial Commission

The ASI judicial commission decides cases for the Associated Students, Inc. The five justices, who serve staggered two-year terms, make decisions according to the ASI bylaws. Any student can bring a case to the ASI judicial commission.

Child Care Center Buildings 200 and 400 (714) 773-2961 a slope of people self-end bas semen and

The Child Care Center is sponsored and funded by Associated Students, Inc. For a nominal fee, children aged 3 months through 5 years whose parents are CSUF students, staff or faculty can benefit from the services of the center. Trained preschool teachers offer a comprehensive curriculum which covers learning skills in several areas of education.

Legal Information and Referral (714) 870-5757

The Associated Students contracts with the College Legal Clinic, a Fullerton-based corporation, to provide information on legal procedures and initial consultation on all types of legal matters. If desired, students are referred to Orange County attorneys for reduced fee services. A 24-hour hot line is maintained by the College Legal Clinic.

University Center

The University Center is located on the northwest corner of campus and provides areas for recreation, relaxation and study. Each semester a portion of student fees helps support the services available there.

Expansion will increase the existing facility by almost two-thirds and will provide additional dining, recreation and programming areas. A club and organizational wing will also be included. The estimated cost of this student-funded project will be approximately \$10,000,000 and will be completed in the spring of 1992.

University Center Governing Board

The University Center Governing Board establishes operating policies for the University Center. Board members include students, faculty, an alumni representative, administrative representatives and an appointee of the university president. Additionally, the board also evaluates the programs and services of the University Center as well as space allocation and budgetary

Board members are involved in several committees. Among them are the Food Services Committee, Policy Committee, Interior Design Committee and the Future Directions Committee. Any student may apply for a board position.

Main Information Desk

The main information counter of the University Center has the answer to most questions. It's the place to purchase OCTD bus passes and ticket books; tickets for some campus events; receive vending machine refunds; retrieve lost belongings from "lost and found"; and obtain general campus information. In addition, student clubs or organizations can place announcements of coming events on the building's three video screens by filling out the appropriate request form. The nearby rideshare board contains the names and phone numbers of people seeking carpool companions for long-distance trips.

The reservation office located behind the information desk provides meeting/event facilities and related services in the UC for student groups, faculty/staff groups, and for the surrounding community. While specific room rental rates vary, some facilities are frequently available at no charge to CSUF chartered student organizations.

Amphitheatre

The Becker Amphitheatre was built by the Associated Students, Inc. in conjunction with the University Center. The amphitheatre, located at the south end of the University Center, is used for noontime concerts, theatre productions and other live entertainment.

Center Gallery

The Center Gallery offers displays of student, graduate and faculty artwork. Exhibits usually feature the work of a single artist and are shown for three weeks. All exhibits are chosen by a student art gallery coordinator.

Graphic Services and Photo Lab

University Center Graphic Services develops quality flyers, brochures, logos, letterheads and posters. Services include illustration, layout design, paste up, and desk top publishing. This area also offers a complete black and white photo lab. All services are provided at very reasonable prices.

Music Listening Room

The Music Listening Room has a living room atmosphere, with soft chairs, bean bag chairs, bright lights for reading, and a counter full of magazines. The Music Listening Room has a wide selection of the latest releases of rock, jazz, classical and countrywestern music. There also are headsets to listen to one of the many albums that are on cassette tapes.

Pub, Snack Bar, Garden Cafe

The Pub's congenial atmosphere offers a place to relax selling soft drinks, beer and wine, sandwiches, pizza, baked potatoes and other foods. Major sporting events are shown on the Pub's bigscreen television, and music is played continuously. The Pub is located on the University Center's lower level.

The Snack Bar is located on the main level of the University Center and specializes in a variety of fast foods.

The Garden Cafe is located on the lower plaza of the University Center and offers a unique cafe menu in a pleasant outdoor garden setting.

Student Typing and Word Processing Center

Aside from the study lounges, this is one of the most popular services offered by the University Center. Here, students can rent typewriters and personal computers to give their assignments that professional look.

UC Programming

UC Programming is a committee of the University Center Board, the governing body of the University Center. The committee's purpose is to develop and present social, cultural and educational programs of interest to the University community.

UC Recreation Area

It's mostly fun n' games on the lower level of the UC. The recreation area offers a place for diversions that include a lounge with a large screen television, a billiard room, table tennis, video and pinball games, a counter for renting lockers, small table games and the Titan Bowl. The CSUF community is invited to participate in the various bowling leagues and tournaments sponsored each semester.

UC Theatre

The University Center Theatre is available to clubs and organizations for meetings, conference lectures and other presentations. It can be reserved through the reservation office at the information counter.

Human Corps Community Service Program

Historically, the mission of American colleges and universities has included a strong commitment to community service. California State University, Fullerton, as a publicly-supported university, places a high priority on service to the community. A primary goal of the total educational process is to prepare students for responsible citizenship. The University has encouraged, since its founding, an ethic of community involvement and participation on the part of its faculty, staff, and student body. Student clubs and organizations have carried out many social service projects, faculty have contributed their expertise to the solution of various civic problems, and individual students, staff, and faculty have all volunteered their time, effort, and abilities to fraternal, civic, and religious organizations and activities.

Therefore, the university welcomes the establishment of the Human Corps and the focus it places on service to the community. Under the Human Corps legislation, all students in publicly supported colleges and universities in California are strongly encouraged to provide an average of 30 hours of community service activity each year. Community service includes, but is not limited to: tutoring, literacy training, neighborhood improvement, job training, youth work, health-support services, mental health care, and assistance to the elderly, disabled, disadvantaged, and homeless. To support students in achieving this goal, Cal State Fullerton:

- 1. established a volunteer bureau and other systems of referral
- 2. provides support to student organizations seeking service proiects, and
- 3. rewards and recognizes service contributions by individual students and student organizations.

Academic credit for certain class-related service activities is already provided in some cases and departments are encouraged to expand such opportunities where academically appropriate. Pay may also be accepted for certain service activities, such as paid internships or stipends and work-study employment.

Further information can be obtained from the University Acitivities Center, Room 2-43, University Center.

University Recreation Program

Believing that recreation and leisure pursuits are an integral part of one's total educational experience and achievement, the Office of University Recreation strives to provide all students an opportunity to use their leisure time wisely in order to attain the highest degree of physical reward and mental relaxation.

The benefits of the recreation program are numerous, and it has been proven time and again, that those who maintain good health and physical fitness, perform better in all aspects of life. These programs are free to all students.

Informal Leisure Recreation

An intensive program of unstructured recreational activities are available to all CSUF students. By presenting a validated, photo ID card, students can participate in the supervised use of numerous facilities including the racquetball and tennis courts, swimming complex, gymnasium and weightroom. These facilities are open seven days a week.

Intramural Sports

The Intramural Sports Program is a student funded recreational based program of competitive leagues and tournaments. The program is accessible to all CSUF students, faculty and staff. Students have an active participative voice in all operations of the program through student assistants as well as the Intramural Representatives who sit on the Intramural Sports Council. Activities such as flag football, ultimate frisbee, bowling, ping pong, basketball, softball and volleyball are scheduled at various times and days to accommodate individual schedules.

Sports Club

The Sports Club program at California State Fullerton is designed for individuals and organizations with similar athletic and/ or recreational interests who wish to compete against other teams outside the University. They meet on a regular basis to teach and develop skill, and to promote the sport or activity. While competing in leagues and tournaments with other colleges, universities, and local clubs they are representatives of California State University, Fullerton. All competitions are on a non-varsity (Non-NCAA) level. Typical clubs include rugby, archery, cycling, bowling, skiing and badminton.

Student Family Memberships

Current CSUF students who are married may purchase a recreation membership for their spouse and children (21 years and younger, living at home). Unmarried students living at home may purchase a recreation membership for their parents and siblings (21 years and younger, living at home).

Intercollegiate Athletics

Physical Education 158 (714) 773-2677

Director of Athletics: Vacant

Associate Directors: Steve DiTolla, Leanne Grotke,

Walt Bowman

Academic Coordinator: Alison Cone Tickets/ Event Manager: Mary Ann Tripodi Sports Information Director: Mel Franks

Coaches

Baseball Augie Garrido

Basketball John Sneed (Men) Maryalyce Jeremiah (Women)

Cross Country/Track (Men/Women) John Elders

Fencing (Men/Women) Heizaburo Okawa

Football Gene Murphy

Dick Wolfe (Men) Lynn Rogers (Women)

The Sports Club program at California State Fullertor Socret

Softball

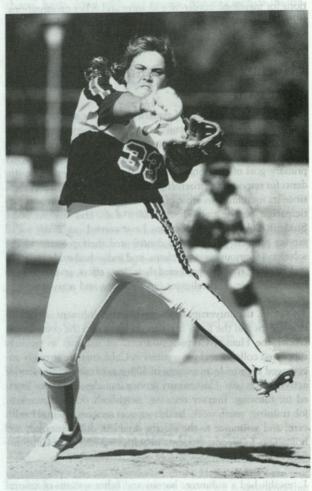
Tennis (Women) Bill Reynolds to ass succession line morning an erroral

Volleyball Jim Huffman

Wrestling Dan Lewis at rest time time server risks not had reduced to the

Conference Memberships

National Collegiate Athletic Association (1997) Aprildice (NCAA) Division I Big West Conference



The rise of academic prestige at California State University, Fullerton has grown alongside the development of one of the nation's premier athletics departments. The inter-collegiate athletics department provides student-athletes the opportunity to compete against the country's finest competition as well as providing a top-notch education. In an effort to ensure academic development, the university provides counseling systems designed specifically for student-athletes. Those services include academic advisement, guidance counseling and daily study halls.

CSUF has also made a commitment to provide facilities that enable fans and athletes alike to enjoy first-rate competition. The long-awaited Sports Complex will give Fullerton fans a muchneeded home football and soccer stadium. The complex will provide a 10,000-seat stadium plus upgraded baseball facilities that will seat over 2,000. Already completed are two lit softball diamonds and a lighted soccer field that enable fans to enjoy the university's many night events. Titan Gymnasium already enjoys tremendous popularity among the local community with over 4,000 fans attending home basketball (men and women's), gymnastics (men and women's) and women's volleyball events. An outdoor swimming complex, racquetball courts, weighttraining facilities, a high-level gymnastics practice facility plus facilities for wrestling and fencing make the Fullerton athletic complex a step above.

Men's Intercollegiate Athletics Baseball

Few NCAA Division I baseball programs have enjoyed the degree of success that the Titans have had over the past decade and a half. During that time, the Titans won 13 conference championships, six regional championships and two national championships. Major League stars Tim Wallach (Montreal Expos), Jeff Robinson (New York Yankees) and Mike Harkey (Chicago Cubs) have developed at Fullerton. Year in and year out the Titans compete against the nation's finest programs and always come out winners. The object of playing spring words of to contenders in the nation's strongest conference.

Basketball and luture athleres, plus the development of future athleres.

The development of Fullerton basketball has been one of college sports' finest Cinderella stories. Always in contention for the Big West Championship, the program has produced half a dozen professional prospects and made a pair of NIT appearances. 1984 Olympic Team point guard Leon Wood is one of many fine athletes who has helped develop the Titans into a team that will continue to grow. The university's commitment to basketball ensures that success in the years to come.

Cross Country

Men's cross country is making positive strides. The program competes in the very competitive Big West Conference which is perennially in the spotlight for national attention. The campus and outlying community offer a beautiful setting which enable the sport to set new standards among local and national universiin Orange County as CSUP proves that hard work and str. seit

Football winder of the state of

The most visible program in an athletics department is football and the growth the Titans displayed on the gridiron during the 1980s was an inspiring example to all Fullerton teams. A struggling Division I-A program became respectable with back-toback conference championships in 1983 and 1984 and now Fullerton is raising its sights by scheduling such opponents as LSU, Florida and West Virginia. The arrival of the on-campus stadium is the final link to a consistently competitive major college program. mean hadra lead a memory morrella?

Soccer and championships given out in the sport and recorded

Soccer is another of Fullerton's many sports where strong coaching has turned the program into a West Coast power. Al Mistri developed one of Southern California's finest soccer programs at Damien High School in Claremont before taking over at Fullerton. Through hard work and support from a summer soccer camp, Coach Mistri has turned Titan soccer into one of the NCAA's most competitive squads. Fullerton shared the conference championship in 1986 and, with the help of the new stadium, expects to challenge for the crown every season.

Fencing

One of the West Coast's few Division I fencing programs gives prospective athletes a chance to train in a traditional, unique sport. The team has enjoyed a great deal of success over the past few years competing against local universities in sabre, foil and

Gymnastics for an every secular achieves receive an organization of the Gymnastics for a secular secular security of the contract of the contr

Fullerton gymnastics have always been one of the NCAA's great success stories. Head Coach Dick Wolfe has won three NCAA championships and countless conference titles in making the Titan team one of the nation's premier units. Numerous All-Americans have competed under Coach Wolfe including Nissen Award candidate Ron Howard. Innovative gymnastics have always been the course of the program as several internationally recognized tricks were devised under Coach Wolfe including the now famous Thomas Flair performed by U.S. Olympian Kurt Thomas. Dance Repertory Theatre members are catefully

Reinstated for the 1989 season, a spring track program provides a complement to the fall cross country schedule and should attract greater numbers of athletes. A new running track is part of the Sports Complex project and will certainly accelerate the growth of the program that was one of the mainstays of Fullerton's athletics department in the early 1970s.

Wrestling

Another sport that few West Coast schools support is prospering in Orange County as CSUF proves that hard work and strong coaching can bring success. Prospective athletes will find an atmosphere that is unparalleled among California universities. Top-notch competition and an All-American environment are two reasons why Fullerton wrestling is so successful. The Titans compete in the rugged Pac-10 conference.

Women's Intercollegiate Athletics

Basketball

The rise in popularity of women's basketball has its foundations tied to the success of Fullerton women's basketball teams. Under former Coach Billie Moore, the Titans won one of the very first national championships given out in the sport and recent teams have continued to be competitive on a regional basis. Two of women's basketball's greatest names have risen from Fullerton including 1976 Olympian Nancy Dunkle and All-American Robin Holmes.

Fencing to ano and to sook death bearing and total days

One of the West Coast's few Division I fencing programs gives prospective athletes a chance to train in a traditional, unique sport. The team has enjoyed a great deal of success over the past few years competing against local universities in sabre, foil and epee.

Gymnastics of something admits a resolution symptome

The consistent efforts of Lynn Rogers' women's gymnastics squad have made them a top-five national power for 11 of the past 15 years. No other school in the nation has produced more All-Americans or finished in the top three for more years than the Titans. Potential scholar-athletes receive an opportunity to compete and win year round.

Softball

The sport of softball continues to set new standards of excellence on the local and national level. Always a contender for the NCAA title, the Titans captured their first championship in 1986. Coach Judi Garman's teaching has brought the university countless All-Americans including former Broderick Award winners Kathy Van Wyk, Susan Lefebvre and Connie Clark. A newly finished on-campus facility now enables an even greater audience to enjoy one of the nation's most successful teams face off against other national powers. The Titans compete in the Big West with such national powers as Fresno State, UOP and Long Beach.

Cross Country

The re-birth of a spring track schedule has been a boon to cross country as athletes in the distance races can now train on a competitive level year-round. An outstanding setting plus the addition of some outstanding athletes make success a very strong likelihood in the years to come. provide a 19,000 a contra participation of the contract of the

Tennis

One of the university's many programs on the rise, Fullerton can take advantage of the beautiful climate of Orange County to attract the nation's top athletes to Fullerton. The redevelopment of the tennis facilities in the future make Titan tennis a program that is bound to remain competitive in the Big West.

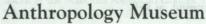
Track

Fullerton made its strongest showing in more than a decade in the 1988 conference championship meet and optimism abounds that the Titans will become a competitive force in the Big West Conference. A new running facility and the advancements made in distance running by the cross country team combined with the climate in southern California should ensure Fullerton of a solid track program.

Volleyball

Despite playing in collegiate volleyball's most competitive conference, Titan volleyball has proven to be a program on the rise. The obvious attraction of playing against NCAA Championship contenders in the nation's strongest conference in the Big West have positioned Titan volleyball as a program on the rise. The acquisition of future athletes, plus the development of budding stars will create an environment that will be hard to beat in the upcoming years. One of the states A sent all or she of sent 's rooms

Resources



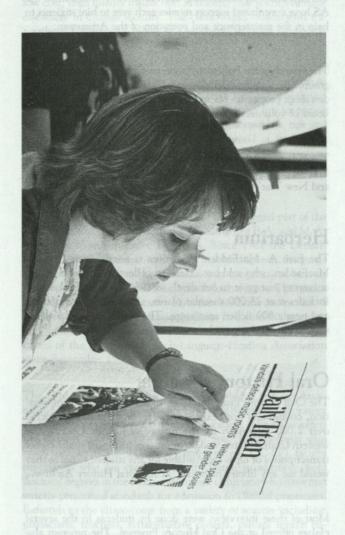
The Museum of Anthropology is an educational and research resource for the University and the community. It houses, sponsors, and conducts a variety of activities as part of the CSUF Anthropology program. Exhibits of the Museum of Anthropology have included artifacts from California, the Middle East, Mesoamerica, the Southwest and Oceania. The well-equipped archaeology laboratory, faunal collection and research library provide facilities for research. Internships and classes in museum techniques are offered for students interested in museology. The museum publishes a series of Occasional Papers, administers an annual scholarship for archaeology students, houses the business office of the Society for California Archaeology, conducts studies on cultural resource management and is the clearing house for Orange County archaeology. The extensive collections are curated by a certified museologist.

Art Gallery

Since 1963 the Art Gallery at California State University, Fullerton has brought to the campus carefully developed art exhibitions that instruct, inspire and challenge the student to the visual arts. Exhibitions of national interest and of museum caliber are presented to the entire student body, faculty and to the community. These act not only as an educational tool but also create interaction between various departmental disciplines and between the campus and the community. In 1970 the Art Gallery was housed in its current permanent location within the Visual Arts Center. In the following years, the gallery has earned national visibility for its program in Museum Studies and Exhibition Design in which museum preprofessionals may obtain both conceptual and practical experience.

Dance Repertory Theatre

The Dance Repertory Theatre was formed in 1981 as a culminating experience for selected students graduating from the Department of Theatre and Dance. It offers recent graduating students in dance an opportunity to perform with a professionally oriented company, preparing them for their careers in dance. Dance Repertory Theatre also permits the university's distinguished dance faculty to continue their professional commitment through public performance. Dance Repertory Theatre members are carefully chosen, based upon their training in ballet and modern dance, to tour a repertory of established and original choreography. The company has toured extensively in southern California, the midwest and Europe.



Daily Titan

Cal State Fullerton's *Daily Titan* is one of the largest college newspapers in California. In recent years, it has become one of the most critically successful, as well.

The *Titan* earned first place among all college dailies in the state in 1987 and 1988 competitions sponsored by the California Intercollegiate Press Association. In 1990, the *TITAN* won CIPA's on-the-spot competition for the fourth consecutive year.

The *Titan* is published every Tuesday through Friday throughout the academic year. It is produced, written and edited entirely by Cal State Fullerton students. All its photographic content is the work of CSUF students.

The *Daily Titan* has a daily readership of more than 19,000. It is distributed at more than 40 locations on campus, as well as in newsracks near the University.

Work on the *Daily Titan* provides intensive experience in newswriting, copy editing, page layout and the myriad other functions necessary to produce a modern daily newspaper.

Fullerton Arboretum

The Fullerton Arboretum is a 26-acre botanical garden — a living museum of plants — located at the northeast corner of the campus. It contains local historical artifacts in the Heritage House museum and horticultural collections that attract visitors from the University and the surrounding communities. The Arboretum is an island of serenity in an increasingly urban/metropolitan environment.

The Arboretum offers countless opportunities to study local history and culture. Heritage House is the restored residence and medical office of Dr. George C. Clark, an Orange County pioneer physician. The Clark home was built in 1894 and exemplifies the Eastlake Victorian style of architecture. The house is listed in the National Register of Historic Places and the Inventory of California Historic Sites. It is also an Orange County Historic Site. It is open to the public on Sundays from 2 to 4 p.m., at which time trained docents discuss the period furnishings and memorabilia. Several student projects and studies have used this facility.

The Arboretum grounds contain a recirculating waterfall, pond and stream system that is a focal point for migratory waterfowl and human visitors. Many plants are grown in groups according to their moisture requirements. Others form special collections such as conifers, palms and rare fruits. Special plant displays assist visitors in their selection of plant materials for urban landscaping.

The CSUF Associated Students (AS) helped to initiate the Fullerton Arboretum by contributing \$10,000 in 1971. Since then, the AS have contributed support monies each year to hire students to help in the maintenance and operation of the Arboretum.

The Friends of the Fullerton Arboretum, the community support group, also supplies operating monies, manages the gift and garden shop, propagates plants for plant sales and provides countless hours of volunteer effort in behalf of the Arboretum.

The Fullerton Arboretum is open 8 a.m. to 4:45 p.m., seven days a week. The Arboretum is closed on Christmas, Thanksgiving and New Year's Day.

Herbarium

The Faye A. MacFadden Herbarium is named after Faye A. MacFadden, who sold her extensive collection of plants to the university just prior to her death in 1964. The collection now includes over 25,000 vascular plants, about 12,000 bryophytes and nearly 800 lichen specimens. The plants are used as a research and teaching tool.

Oral History Program

The Oral History Program offers students a source of information, courses and work experience. The program has conducted over 2,000 interviews on the history of Orange County, the western United States, and other areas of historical study. Either transcriptions or tapes are available for any student to use as they would use any library materials, at the Oral History Archive.

Most of these interviews were done by students in the several classes offered at the Oral History Program. The program also maintains a student staff through internships, work study or grant-supported positions. These staff receive experience in word-processing, editing, book production and organizational administration. They are credited with authorship or assistance on publications, and several alumni of the program now hold important professional positions.

Reading Clinic

Education Classroom 24 (714) 773-3356

The Reading Clinic serves three major purposes. First, it provides a controlled, supervised setting for the training of reading specialists and classroom teachers who wish to improve their skills in working with learning disabled and reading disabled students.

Secondly, the clinic serves as a community service providing very low cost, high quality instruction in reading that is not available elsewhere in Orange County. The clinic works closely with the Southern California College of Optometry in order to provide broader services.

The third purpose of the clinic is to provide parent education to community members whose children have reading disabilities. The clinic provides parent inservice sessions, a hot line for phone information, and a monthly newsletter of information, tips and examples of student work. The clinic is proud of its 20-year service to the university and community.

Speech and Hearing Clinic

The Speech and Hearing Clinic (SHC) is an integral part of the curricular programs of the university leading to a B.A. and M.A. Degree in Communicative Disorders. Since 1961 the Department of Speech Communication has provided speech, language and hearing services to the community in conjunction with its training program for professional speech pathologists. The graduate program in Communicative Disorders holds the distinction of being one of only two academic programs in California to maintain continuous accreditation by the Educational Standards Board of the American Speech-Language-Hearing Association since September 1969.

The clinic is composed of a Speech Pathology Unit, an Audiology Unit and a Communicative Disorders Research Laboratory with special emphasis given to voice disorders. The clinic offers the services of a resident professional Speech Pathologist who holds the Certificate of Clinical Competence (CCC-SP), faculty supervisors who are clinically certified and, in addition, hold doctoral degrees in the field, and student clinicians who have met strictly prescribed standards for admission to clinical practicum. Referrals to the clinic come from a variety of sources including: physicians, teachers, rehabilitative centers, private speech pathologists and audiologists, and self-referrals. Services available at the clinic include: diagnostic evaluations, therapeutic intervention, audiometric testing, rehabilitative audiology including hearing aid evaluations, screening tests for students seeking state credentials, and family counseling relative to problems associated with communicative disorders.

Theatre and Dance Department Productions

CSUF students receive reduced ticket rates to all Theatre and Dance Department productions. Each year, six plays and two dance concerts are produced on main stage along with theatre for young audiences, touring plays, master's thesis productions, playwright workshops and original one-acts. CSUF plays have been selected eight times during the last ten years to be produced at the American College Theatre Festivals, selected out of over 50 production entries. In 1983, its production of The Bulldog and the Bear was selected from over 500 production entries to be produced at the National American College Theatre Festival at the John F. Kennedy Center in Washington, D.C.

Titan Shops

Titan Shops is a subsidiary of the California State University, Fullerton Foundation and is the organization that is responsible for the administration of the Titan Bookstore, Dining Services and Vending Services for the university. Titan Shops policy is set by the CSUF Foundation Board of Directors. Titan Shops is administered by the Foundation's Director of Commercial Operations.

Titan Shops Bookstore

The Titan Shops Bookstore is located on the ground floor of the Commons Building directly east of the University Center and west of the Library. Its primary function is to service the textbook and school supply requirements of the students of the university. In addition to these items, however, the Titan Shops carries an extensive stock of office supplies, greeting cards and clothing items, a trade book department which encompasses 15,000 reference and general interest books, a photocopy center and a gift department with an ever changing selection of items. Finally, the Titan Shops is engaged in the sale and repair of personal computers at significant price reductions to encourage the use of computers and development of computer literacy at the university.

Titan Shops is managed by the California State University Fullerton Foundation.

Dining & Vending Services

Primary Food Service facilities on the campus are on the second floor of the Commons (the Tastery), on the University Center ground floor (the UC Food Court), and at the southeast corner of the campus, the campus Carl's Jr. In addition to these primary facilities, there is a Pub serving food, beer and wine on the basement level of the University Center. Catering for the university is the responsibility of Dining Services.

Over 75 food and beverage vending machines are located at several areas on the campus to service the needs of the university. Product selection and prices are monitored by the University Food Service Committee. In addition, the vending program includes payphones across the campus and laundry machines in the residence halls.

Dining and Vending services are managed by the California State University Fullerton Foundation.

Undergraduate Reading Lab

Education Classroom 249 and 18

The Undergraduate Reading Lab/Professional Library is an essential element in the Reading Program for both graduate and undergraduate students. It serves as a resource for materials and equipment by which undergraduate students can improve their reading skills and complete additional class assignments. The lab also functions as a liaison between faculty and students, as a diagnostic lab for required or additional assessment of student skills, and as a professional resource for graduate students and faculty.

The lab has also offered services to special students from the Handicapped Center, Women's Center and the Counseling Center. In addition, the development of a professional library and the recent donation of material from the Reading Educators Guild aids graduate students in their research and course work. Finally, a goal of this lab is to develop a base of software materials for both classroom and individual student use.

University Channel

As part of two local cable television agreements covering the cities of Fullerton, Placentia and Anaheim, the university provides programming for dedicated channels on those systems. In January 1981, regular production of programs about Cal State Fullerton and Orange County in general was begun. Students in senior level communications and theatre courses participate in a variety of programming efforts for the university cable channel.

Academic Cademic Consument

Academic Advisement

Academic Advisement Policy

The CSUF Academic Policy (UPS 300.002) states that:

- the responsibility for ensuring the availability of academic advisement rests with each school dean;
- every student should declare a major or school of interest as soon as possible after admission to the university; and
- all students shall confer with an academic adviser on a regular basis.

Choosing General Education Courses and Electives

In keeping with the liberal arts tradition, the university requires its graduates to have sampled a variety of disciplines as part of their general education. The broad categories of general education courses are presented in the catalog section on "Graduation Requirements for the Bachelor's Degree."

All students are strongly encouraged to consult with faculty members or the Academic Advisement Center about choice of general education and elective courses.

Advisement in the Major

Students who have declared a major should consult their departmental adviser on a regular basis for academic advice.

Advisement for Students Who Have Not Selected a Major

Students who have not declared a major should consult one of the school advisement offices listed below or the Academic Advisement Center to discuss their academic goals.

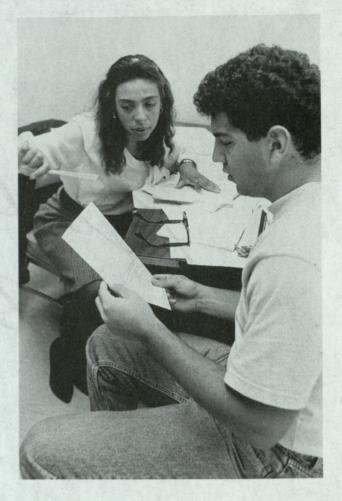
School Advisement Offices

Students who have declared a school of interest or who wish to explore the majors offered by a specific school should contact the appropriate school advisement office:

School of the Arts

Office of the Dean Visual Arts 199 (714) 773-3256

School of Business Administration and Economics Business Advising Center Langsdorf Hall 700 (714) 773-2211



School of Communications Office of the

Associate Dean Education Classroom 46 yerly doubte as another purchas are unable (714) 773-3355

School of Engineering Office of the and Computer Science Associate Dean

Engineering 100-D (714) 773-3362

School of Human Office of the Development And Associate Dean Community Service Education Classroom 325 273-3311 and recent metalogy and objects (714) 773-3311

her educational institutions School of Humanities and Office of Student Social Sciences

Academic Affairs McCarthy Hall 103 10 A academic program of the contract of the contract (714) 773-2024

School of Natural Science and Mathematics Academic Affairs

Office of Surgest our days benefite a unique of the McCarthy Hall 166 forcing the local well an arrangement about (714), 773-2638

Academic Advisement Center

Humanities 112 (714) 773-3606

The Academic Advisement Center provides guidance in the selection of elective and general education courses. It is the administrative center for undeclared undergraduate majors. All problems encountered by the undeclared major, which normally require the assistance of a department chair, are handled by the director of the Academic Advisement Center.

No appointment is necessary to engage the assistance of an adviser about various aspects of academic life at the university. For more specific information about the office, the student should consult the class schedule. The class schedule and consult the class schedule. quage. Students desiring assistance and comselling regarding ad

Undeclared Majors

Lower division students who are uncertain about their primary educational or vocational goals may enroll as undeclared majors. However, they should select the school which most closely reflects their general interests and consult that School's advisement office for academic assistance. During their freshman and sophomore years, such students should explore their interests and potential by enrolling in a set of courses recommended by the School adviser.

Choosing an Undergraduate Major

Every student should choose a major by the beginning of the junior year so that he or she may complete major requirements in an orderly way. Most major requirements allow students the freedom to take a number of courses in fields other than in the major.

To help students, the University has available a number of useful resources: the academic information sessions conducted in May and November; summary sheets on majors available from department offices or the Academic Advisement Center; a variety of counseling and testing services provided by the Career Development Center; and brochures and manuals from school and department offices describing their programs of study and later work opportunities. There are student organizations with disciplinary and professional interests and a Career Development Center which has information on vocations and work opportunities to help in the selection of a major.

The task of selecting a major (and often a minor or other complementary specialization) becomes one of crystallizing ideas on the basis of experiences in specific courses, discussions with other students, faculty, the staff of the Academic Advisement Center, etc. The option to take a limited number of courses on a Credit/No Credit basis often will help students explore new interests.

Students must plan freshman or sophomore programs which will permit them to enter or take advanced courses in fields they may want to pursue. They should be sure to begin or complete requirements such as mathematics, chemistry or a foreign language early in their academic careers. Students anticipating graduate or professional study should exercise special care in planning undergraduate programs and seek faculty counseling in the field of interest. Advance examination of the possibilities of graduate or professional study will be helpful to students who have clear educational and vocational objectives, to stall objective amounts

Those whose goals and objectives have not yet crystallized will have opportunities to take courses in various fields and make up their minds during their lower division work. They should, however, take full advantage of the opportunities that exist on and outside the campus to learn more about available fields of study and occupational fields. The coordinate of the employee

Planning a Major Program

When students have selected a major field, they should study all the requirements which are specified in this catalog under their chosen degree program. They should make a tentative semester by semester plan for completing the requirements including prerequisites and discuss this plan with an adviser in the major.

In addition to courses in the major department, related courses in other fields and supporting courses in basic skills may also be required. These should be included in the tentative semester by semester plan.

Some departments require placement tests prior to admission to classes. The times and places for such tests are given in the class schedule. Students should purchase a copy of the class schedule at the Titan Bookstore when registration for classes begins.

Change of Major, Degree or Credential Objective

To change a major, degree, or credential objective, obtain the required form in the Office of Admissions and Records or the Academic Advisement Center and take it to the appropriate office(s) for signature(s). Such a change is not official until the form has been signed and filed in the Registrar's Office.

Departmental Academic Advisement

Each department follows the advisement system which it finds the most appropriate for its majors.

It is the responsibility of the student to obtain the assistance of a faculty adviser.

The adviser is a resource person who can provide information and suggestions and who can assist the student to find the most desirable ways to meet the requirements for graduation and for the major or credential. The final choice of courses and the responsibility for the program lies with the student. Undergraduate students who have not yet decided upon a major (undeclared majors) or who are not seeking a degree will be advised in the Academic Advisement Center.

Academic program advisers are able to offer better advice if students provide lists of courses they have taken and their own copies of transcripts from colleges previously attended (if students are new to Cal State Fullerton).

Undergraduate advisement coordinators are appointed by each department (for the School of Business Administration and Economics see below) in order to facilitate communication between students and faculty. They coordinate advisement in each department and act as resource persons for the students and the faculty of the department in all matters of advisement.

The School of Business Administration and Economics provides advisement in the advisement center of the school.

Graduate students will be assigned a major adviser in their fields of specialization, except in education where all will have a professional adviser from the School of Human Development and Community Service. Those students seeking a credential for teaching in secondary schools will be assigned both a professional and a major adviser.

Preprofessional Programs

The academic programs of the university provide appropriate preparation for graduate work in a variety of fields. Students who have made tentative decisions about institutions at which they may wish to pursue graduate work should consult the catalogs of those graduate schools as they plan their undergraduate programs. Students planning to undertake graduate work should supplement their undergraduate programs by anticipating requirements at major graduate schools.

The university offers a number of professional programs through the master's degree. These include programs in the fine arts, business administration, communications, education, engineering, health education and physical education and recreation, public administration, and speech pathology-audiology. Students interested in preparing for professional careers in these areas, either here or at other educational institutions, are encouraged to seek assistance and guidance from CSUF faculty members in these fields.

Prelegal Preparation

It is recommended that prospective law students prepare themselves in such fields as English, American history, economics, political science (particularly the history and development of English and American political institutions) and such undergraduate courses as judicial process, administrative law, constitutional law and international law, philosophy (particularly ethics and logic), business administration, anthropology, psychology and sociology.

A distribution of course sequences among the social sciences, the natural sciences and the humanities is desirable. Students with interest in becoming lawyers should contact the Prelaw Society. Some faculty members in the School of Business Administration and Economics and Departments of American Studies, History and Political Science, also can provide advice and assistance.

Pretheological and member A statement of the recent

Students who might be interested in pursuing careers in counseling, social work, the teaching of religion, and the ministry and associated fields should take some courses in religion, psychology, anthropology, sociology, philosophy, education, communications, history, English, speech communication and a foreign language. Students desiring assistance and counseling regarding advanced work in religious studies or professional careers in the ministry or rabbinate may seek help from the faculty in the Department of Religious Studies.

Social Welfare llong van also a larottagov to larottagobe

Students who plan to seek employment in social work or social welfare should prepare themselves in the fields of human services, psychology (particularly child and adolescent psychology), sociology, anthropology, political science, economics and research methods in social science.

Students who intend to enter a professional school following undergraduate training should learn about the specific prerequisites for admission to the graduate school of their choice. Ordinarily a major in one of the social sciences, and some additional work in at least several other social sciences, are recommended. Students with interests in pursuing careers in the fields of social welfare should contact the Department of Sociology or the Human Services Program for advice and assistance.

Health Professions

Langsdorf Hall 203 (714) 773-3980

All health professions programs are seeking the best qualified applicants with a good command of communication skills, rigorous basic science preparation and as broad a general education base as possible.

The Health Professions Committee assists students to prepare the best academic programs consistent with their former educational experience, interests and professional objectives. The Committee continues to be concerned about the under-representation of minority students entering the health care professions. Thus, minority students are actively recruited and every effort is made to assist them in achieving their goals.

Student Responsibility

All new students, both first-time freshmen and transfer students, interested in preparing to enter one of the following health professions, or related health professions, should register with the secretary of the committee, in the Health Professions Office. These health professions are medicine, osteopathic medicine, podiatric medicine, veterinary medicine, chiropractic, clinical pharmacy, clinical pharmacology, dentistry, optometry.

The related health professions include anatomist, dental hygienist, histologist, medical technologist, nutritionist, occupational therapist, orthotist-prosthetist, pharmacologist, physical therapist, pharmacist, physiologist, public health.

Health Professions Committee

The committee assists the student to (a) gain some preceptorship experience with a practicing professional in the area appropriate to the field of interest; (b) select a list of professional schools to which there is a likelihood of admission; (c) prepare professional school applications; (d) prepare for an admissions interview.

Students who receive a favorable Health Professions Committee review of their academic records and personal qualifications, including commitment and motivation, have a committee letter prepared for them in support of their application.

Answers To Your Questions

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TOPIC was regard bloods anotherion d	WHERE TO GO	LOCATION	TELEPHONE
Academic Appeals	Academic Appeals Office	Langsdorf Hall-810	773-3221
Add or Drop a Class	See Class Schedule	govern and the second whether we	773-2300
Address Change	Admissions & Records Counter	Landgsdorf Hall-Lobby	773-2300
Admissions/Applications	Admissions & Records Counter	Langsdorf Hall-Lobby	773-2300
Advisement:	al objective, obtain the gameses	er sk muste praduate schools.	
Undeclared Major	Academic Advisement Center	Humanities-112	773-3606
Declared Majors	Major Department		dtiaKrote
Athletics Tickets/Passport	Athletic Ticket Office	Physical Education-122	773-2783
Child Care	Child Care Center	Temporary-200	773-2961
Counseling:		the makes or have provided by a contract and	
Personal	Counseling Service-Health Center	Health Center	773-2800
Vocational	Career Development Center	Langsdorf Hall-208	773-3121
Degree Application/Diploma Orders	Graduation Unit	Langsdorf Hall-110B	773-2300
Degree Evaluation, Undergraduate	Graduation Unit	Langsdorf Hall-110B	773-2300
Disabled Student Services	Office of Disabled Student Services	Library-113	773-3117
Disqualification/Reinstatement	Admissions Counselor	Langsdorf Hall-107	773-2370
Emergency Messages	Vice President for Student Services	Langsdorf Hall-810	773-3221
Employment: agolesimbs as not sugger		consistent with their form field	demic programs o
Business, Industry,	Career Development Center	Langsdorf Hall-208	773-3063
Government			
Educational	Career Development Center	Langsdorf Hall-208	773-2457
Minority Relations	Career Development Center	Langsdorf Hall-208	773-3063
Student (Part-Time)	Career Development Center	Langsdorf Hall-208	773-3063
Staff	Personnel Services	Temporary-14	773-2425
Enrollment Verification:			
Duplicate I.D. Card or Fee Receipt	Cashier	Langsdorf Hall-108	773-3918
Letter Request	Admissions & Records Counter	Langsdorf Hall-Lobby	773-2300
Extension Class Information	Extended Education Office	Temporary-14	773-2611
Evaluations/General Education	Evaluations Unit	Langsdorf Hall-110B	773-2300
Financial Aid	Financial Aid Office	McCarthy Hall-63	773-3125
Foreign Student:			
Advisement	Major Department	W C 1 H II 70	772 2707
Permits to Register	International Education Office	McCarthy Hall-79	773-2787
Graduate Studies	Graduate Studies Office	McCarthy Hall-129	773-2618
Graduation Requirements (undergraduate)	Graduation Unit	Langsdorf Hall-110B	773-2300
Health Insurance	University Center	U.C. Lobby	773-2468
Housing and Transportation	Housing Office	Cypress-101	773-2168
Internships and Cooperative Ed.	Internship Office	Langsdorf Hall-210	773-2171
Library Information	Library Building	Library Lobby	773-2724
Mentor Program	Engineering Building	Engineering-100	773-3709
Name Change	Admissions & Records Counter	Langsdorf Hall-Lobby	773-2300
Organizations & Clubs	University Activities Center	U.C. 2-43	773-3211
ment and act as resource persons for the	University Center	story, English, speech communi	TTR 2006
Outreach Services	University Outreach Office	Library-22	773-2086
Parking:	vanced t	work in religious spaties or pro-	222 2010
Fees	Cashier	Langsdorf Hall-108	773-3918
Information Administration	Department of Public Safety	Temporary-1200	773-2515
Handicapped	Disabled Student Services	Library-113	773-3117
Readmission	Admissions & Records Counter	Langsdorf Hall-Lobby	773-2300
Records (Student)	Records Office	Langsdorf Hall-110A	773-2300
Registration Fees	Cashier professions Students	Langsdorf Hall-108	773-3918
Residency	Evaluations Unit	Langsdorf Hall-105	773-2300
Scholarships	Financial Aid Office	McCarthy Hall-63	773-3125
Student Academic Services (EOP/SAA/Retention)	Student Academic Services Office	Humanities-113	773-2288
Summer Sessions, Information	Extended Education Office	Temporary-14	773-2611
Test Information	Testing Center	Langsdorf Hall-206	773-3838
Transcripts	Admissions & Records Counter	Langsdorf Hall-Lobby	773-2300
Tutoring	Learning Assistance Resource Center	Library-38	773-3488
Veterans Certification	Veterans Affairs Office	Langsdorf Hall-110A	773-2300
Women's Center	Women's Center	McCarthy Hall-33	773-3928
moments Center			

Undergraduate Students

Admissions

Undergraduate Students

Freshmen Requirements

You will qualify for regular admission as a first-time freshman if you

- 1. are a high school graduate,
- 2. have a qualifiable eligibility index (see Eligibility Index Table next page) and
- have completed with grades of C or better the courses in the comprehensive pattern of college preparatory subject requirements:

English: 4 years

Mathematics, 3 years: algebra, geometry, and intermediate algebra

U.S. History or U.S. history and government: 1 year

Science, 1 year with laboratory: biology, chemistry, physics, or other acceptable laboratory science

Foreign Language: 2 years in the same language (may be waived for applicants who demonstrate competence in a language other than English equivalent to or higher than expected of students who complete two years of foreign language study)

Visual and Performing Arts, 1 year: art, dance, drama/theater, or music

Electives, 3 years: selected from English, advanced mathematics, social science, history, laboratory science, foreign language, visual and performing arts, and agriculture

Eligibility Index

The eligibility index is the combination of your high school grade point average and your test score on either the American College Test (ACT) or the Scholastic Aptitude Test (SAT). For this purpose we compute your grade point average on your final three years of high school studies, excluding physical education and military science, and use bonus points for certain honors courses. (see "High School Honors Courses" in this section of the catalog.) CSUF may offer you early, provisional admission based on your work completed through the junior year of high school and planned for your senior year.



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		Score	G.P.A.	Score	Score	G.P.A.	Score	Score	G.P.A.	Score	Score	G.P.A.	Score	Score
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The State of the S		ny score	2.79	14	570	2.58	18	740	2.37				27	1080
2.99	10	410	2.78	14	580	2.57	18	750	2.36	23	920	2.15	27	1090
2.98	10	420	2.77	14	590	2.56	19	760	2.35	23	920	2.14	27 27	
2.97	10	430	2.76	15	600	2.55	19	760	2.34	-	930	2.13	Service (PROD)	1100
2.96	11	440	2.75	15	600	2.54	19	770	2.33	23	940	2.12	27	1110
2.95	11	440	2.74	15	610	2.53	19	780	2.32	23	950	2.11	28	1120
2.94	11	450	2.73	15	620	2.52	19	790	2.31	24	960	2.10	28	1120
2.93	11	460	2.72	15	630	2.51	20	800	2.30	24	960	2.09	28	1130
2.92	11	470	2.71	16	640	2.50	20	800	2.29	24	970	2.08	28	1140
2.91	12	480	2.70	16	640	2.49	20	810	2.28	24	980	2.07	28	1150
2.90	12	480	2.69	16	650	2.48	20	820	2.27	24	990	2.06	29	1160
2.89	12	490	2.68	16	660	2.47	20	830	2.26	25	1000	2.05	29	1160
2.88	12	500	2.67	16	670	2.46	21	840	2.25	25	1000	2.04	29	1170
2.87	12	510	2.66	17	680	2.45	21	840	2.24	25	1010	2.03	29	1180
2.86	13	520	2.65	17	680	2.44	21	850	2.23	25	1020	2.02	29	1190
2.85	13	520	2.64	17	690	2.43	21	860	2.22	25	1030	2.01	30	1200
2.84	13	530	2.63	17	700	2.42	21	870	2.21	26	1040	2.00	30	1200
2.83	13	540	2.62	17	710	2.41	21	880	2.20	26	1040	D.I.	2 00 1	Selector.
2.82	13	550	2.61	18	720	2.40	22	880	2.19	26	1050	1000	2.00 doe	
2.81	14	560	2.60	18	720	2.39	22	890	2.18	26	1060	THE RESERVE	fy for reg	ular
2.80	14	560	2.59	18	730	2.38	22	900	2.17	26	1070	a	dmission	

You can calculate the index by multiplying your grade point average by 800 and adding your total score on the SAT. Or, if you took the ACT, multiply your grade point average by 200 and add ten times the composite score from the ACT. If you are a California high school graduate (or a legal resident of California for tuition purposes), you need a minimum index of 2800 using the SAT or 694 using the ACT; the table on the next page shows the combinations of test scores and averages required.

If you neither graduated from a California high school nor are a legal resident of California for tuition purposes, you need a minimum index of 3402 (SAT) or 842 (ACT).

Applicants with grade-point averages above 3.00 (3.60 for nonresidents) are exempt from the test requirement. However, students are urged to take the SAT or ACT since campuses use test results for advisement and placement purposes.

Eligibility Index Alternative — As an alternative to calculating an eligibility index, California residents (or graduates of California high schools) may use the table on the next page to determine their eligibility.

You will qualify for regular admission to programs not impacted (See "Impacted Programs" in the Application Procedure section of this catalog) when the university verifies that you have a qualifiable eligibility index and that you will have completed the comprehensive pattern of college preparatory subjects. You may still qualify for regular admission on condition, if you are otherwise eligible but are missing a limited number of the required subjects (see "phase-in" section). Please consult a counselor if you have any questions.

"Conditional admission" is an alternative means to establish eligibility for admission. Applicants otherwise eligible for regular admission, but missing a limited number of the preparatory subjects, will be regularly admitted on condition that they make up the missing subjects early in their baccalaureate studies. Students will not be denied admission during the phase-in period simply because they lack a limited part of the required pattern.

The phase-in schedule is:

Fall 1991 - Summer 1992: at least 13 of the required 15 units, including at least 3 of the units required in English and 2 of the units required in mathematics.

Fall 1992 and later: full implementation of the 15-unit requirement expected.

Transfer Requirements

You will qualify for admission as a transfer student if you have a grade point average of 2.0 (C) or better in all transferable units attempted, are in good standing at the last college or university attended, and meet the following standard:

- were eligible as a freshman, or
- were eligible as a freshman except for the college preparatory subjects and have completed appropriate college courses in the missing subjects, or
- (c) have completed at least 56 transferable semester (84 quarter) units and have completed appropriate college courses to make up any missing subjects in college preparatory courses. (Nonresidents must have a 2.4 grade point average or better.)

High School Honors Courses

Grades in up to eight semester courses, taken in the last two years of high school, that are designated honors in approved subjects receive additional points in grade point average calculations. Each unit of A in approved courses will receive a total of 5 points; B, 4 points; C, 3 points; D 1 point; and none for F grades.

International Baccalaureate Program

California State University, Fullerton recognizes the high scholastic quality of the International Baccalaureate Diploma Program. High school graduates who have participated in the program are encouraged to apply for admission, and those who have received the International Baccalaureate Diploma will be given special consideration for admission. Advanced placement and/or university credit for International Baccalaureate subject examinations may be awarded at the discretion of individual departments.

For example for a grade of 4 or better, the Departments of Foreign Language and Mathematics award credit in the following manner:

Foreign Languages. Subject to a successful oral interview with two CSUF instructors of the target languages, and upon their recommendation:

Higher Level Language B:

- Waiver of appropriate lower division requirements
- 3 to 12 units of upper division language credit

Subsidiary Level Language B:

- waiver of appropriate lower division requirements
- O to 6 upper division language credit (if 0 upper division is awarded, a minimum of 6 units of 200 level credit is recommended.)

Mathematics

Higher level

- two semesters of Calculus (Math 150A and Math 150B) Subsidiary level
- one semester of Calculus Math 150A or equivalent

Health Screening

All new and readmitted students born after January 1, 1957, will be notified of the requirement to present proof of measles and rubella immunizations. This is *not* an admissions requirement, but shall be required of students by the beginning of their second term of enrollment in CSU. Proof of measles and rubella immunizations shall also be required for certain groups of enrolled students who have increased exposure to these diseases.

Measles and Rubella Immunizations

The campus shall notify certain students born after January 1, 1957, of the CSU requirement to present proof of measles and rubella immunizations by the beginning of the next term of enrollment. At the beginning of the next term of enrollment, those so notified who have not presented acceptable proof of the immunizations shall be notified further of the need to comply before receiving registration materials to enroll for the succeeding term.

Persons subject to these health screening provisions include:

New students enrolling fall 1986 and later;

Readmitted students reenrolling fall 1986 and later;

Students who reside in campus residence halls;

Students who obtained their primary and secondary schooling outside the United States;

Students enrolled in dietetics, medical technology, nursing, physical therapy, and any practicum, student teaching, or field work involving preschool-age children, school-age children, or taking place in a hospital or health care setting. (Campuses may modify the list of types of study in this reference as appropriate to their curricula.)

The Student Health Center shall provide immunizations without cost to those students unable to obtain acceptable proof of immunizations.

Test Scores

Freshman and transfer applicants who have fewer than 56 semester or 84 quarter units of transferable college work must submit scores, unless exempt, from either the Scholastic Aptitude Test of the College Board (SAT) or the American College Test Program (ACT). You may obtain registration forms and the dates for either test from school or college counselors or from a campus Testing Office or may write to:

The College Board (SAT) American College Testing Program (ACT)
Registration Unit, Box 592 Registration Unit, P.O. Box 168
Princeton, New Jersey 08541 Towa City, Iowa 52240

TOEFL Requirement

All undergraduate applicants regardless of citizenship whose native language or whose language of instruction or study is other than English are required to present scores for the Test of English as a Foreign Language (TOEFL). The TOEFL results submitted must not have been earned more than two years prior to the desired enrollment date. A minimum score of 500 on the Test of English as a Foreign Language is required. Individual campuses may require a higher score.

Placement Test Requirements

English Placement Test (EPT)

The English Placement Test (EPT) is required of all entering California State University undergraduate students who are not otherwise exempt. Exemptions are granted only for those students who present proof of having met one of the following criteria: at superange and manor's parents are last received as the criteria.

- a score of 25 or above on the ACTE (Enhanced) English Test.
- a score of 3, 4 or 5 on either the Language and Composition or the Composition and Literature examination of the College Board Advanced Placement Program
- · a satisfactory score on the CSU English Equivalency Examination man and an area flow to the most some process
- a score of 470 or above on the Verbal section of the College Board Scholastic Aptitude Test (SAT-Verbal)
- a score of 25 or above on the ACT English Usage Test
- a score of 600 or above on the College Board Achievement Test in English Composition with essay
- · completion of an acceptable college course in English composition of four quarter or three semester units with a grade of C or better

The EPT is offered only to admitted students and has no effect on admission decisions. Effective with the 1986/87 academic year, all nonexempt students subject to the 1985/87 or subsequent catalogs, including those enrolling with 56 or more transferable semester units, are required to take the EPT.

California State University, Fullerton (CSUF) has established the following policy regarding compliance with this regulation:

Effective fall 1986, all new and continuing undergraduate students who have not taken the EPT and who are not otherwise exempt must take the test prior to the beginning of their next semester of enrollment at CSUF. Students who fail to comply with this policy shall be placed on administrative academic probation in their next semester of enrollment at Fullerton. Students on probation for this reason who do not take the EPT prior to the beginning of their third semester of enrollment at CSUF will be administratively disqualified from enrolling until they take the EPT. Treav a ment arom not according to minutes to

Entry Level Mathematics (ELM) Test

The Entry Level Mathematics (ELM) test is required of all California State University undergraduate students who were admitted for fall 1983 or after under the 1983/84 or later campus catalog and who are not otherwise exempt. Exemptions are granted only for those students who present proof of having met one of the following criteria: Insola Bom and not insolved

- a score of 3 or above on the College Board Advanced Placement Mathematics examination (AB or BC)
- · a score of 530 or above on the Mathematics section of the Scholastic Aptitude Test (SAT-Math)
- a score of 23 or above on the ACT Mathematics Test
- a score of 520 or above on the College Board Math Achievement Test, Level 1
- a score of 540 or above on the College Board Math Achievement Test, Level 2
- · completion of a college course that satisfies the General Education-Breadth Requirement in Quantitative Reasoning, provided it is above the level of intermediate algebra with a grade of C or better.

The ELM test is offered only to admitted students and has no effect on admission decisions, but it must be taken and passed before the student can enroll in any course that satisfies the Mathematical Concepts and Quantitative Reasoning portion of the General Education-Breadth requirements.

California State University, Fullerton (CSUF) established the following policy regarding compliance with this regulation:

Requirement To Take The ELM Test:

Effective fall 1986, all new and continuing undergraduate students who have not taken the ELM test and who are not otherwise exempt must take the test prior to the beginning of their next semester of enrollment at CSUF. Students who fail to comply shall be placed on administrative academic probation in their next semester of enrollment at Fullerton. Students on probation for this reason who do not take the test prior to the beginning of the third semester of enrollment at CSUF will be administratively disqualified from enrolling until such time as they take the ELM test.

Students Who Have Taken But Not Passed The ELM

Students who have taken but failed to pass the ELM test must participate in a program designed to assist them in learning the skills needed to pass the test (such as the Intensive Learning Experience). The program may be one offered at CSUF or an appropriate program on another campus. For continuing students, participation must begin in the fall 1986 semester. Effective fall 1986, new and returning students must participate in an approved program in their first semester of enrollment after the receipt of the test results. Learning Assistance Resource Center is responsible for monitoring compliance with this provision and for certifying the appropriateness of the course in which the student wishes to participate.

Participation in a program to prepare for the ELM test must be continued until the test is passed. At least one attempt to pass the test must be made each semester. Students who fail to comply with this requirement shall be placed on administrative academic probation. Students on probation for this reason must pass the ELM test before the beginning of the next semester or they will be administratively disqualified from enrolling until they obtain a passing score.

ELM And Credit Unit Limitations:

Students not otherwise exempt and who have not passed the ELM test will be placed on administrative academic probation the first semester after they complete 61 or more semester units of credit. Such students must pass the ELM test before the beginning of the next semester or they will be administratively disqualified.

Residency Requirements

The campus admissions office determines the residence status of all new and returning students for nonresident tuition purposes. Responses to the Application for Admission and, if necessary, other evidence furnished by the student are used in making this determination. A student who fails to submit adequate information to establish a right to classification as a California resident will be classified as a nonresident.

The following statement of the rules regarding residency determination for nonresident tuition purposes is not a complete discussion of the law, but a summary of the principal rules and their exceptions. The law governing residence determination for tuition purposes by The California State University is found in Education Code Sections 68000-68090, 68121, 68123, 68124, 89705-89707.5, and 90408 and in Title 5 of the California Code of Regulations, Sections 41900-41912. A copy of the statutes and regulations is available for inspection in the campus admissions office.

Legal residence may be established by an adult who is physically present in the state and who, at the same time, intends to make California his or her permanent home. Steps must be taken at least one year prior to the residence determination date to show an intent to make California the permanent home with concurrent relinquishment of the prior legal residence. The steps necessary to show California residency intent will vary from case to case. Included among the steps may be registering to vote and voting in elections in California; filing resident California state income tax forms on total income; ownership of residential property or continuous occupancy or renting of an apartment on a lease basis where one's permanent belongings are kept; maintaining active resident memberships in California professional or social organizations; maintaining California vehicle plates and operator's license; maintaining active savings and checking accounts in California banks; maintaining permanent military address and home of record in California if one is in the military service.

The student who is within the state for educational purposes only does not gain the status of resident regardless of the length of the student's stay in California.

In general, the unmarried minor (a person under 18 years of age) derives legal residence from the parent with whom the minor maintains or last maintained his or her place of abode. The residence of a minor cannot be changed by the minor or the minor's guardian, so long as the minor's parents are living.

A married person may establish his or her residence independent of his or her spouse.

An alien may establish his or her residence, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States. An unmarried minor alien derives his or her residence from the parent with whom the minor maintains or last maintained his or her place of abode.

Nonresident students seeking reclassification are required by law to complete a supplemental questionnaire concerning financial independence.

The general rule is that a student must have been a California resident for at least one year immediately preceding the residence determination date in order to qualify as a "resident student" for tuition purposes. A residence determination date is set for each academic term.

At the Fullerton campus, the residence determination date for the fall term is September 20, and for the spring term is January 25.

Questions regarding residence determination dates should be directed to the campus admissions office which can give you the residence determination date for the term for which you are registering.

There are exceptions from nonresident tuition, including:

- 1. Persons below the age of 19 whose parents were residents of California but who left the state while the student, who remained, was still a minor. When the minor reaches age 18, the exception continues for one year to enable the student to qualify as a resident student.
- Minors who have been present in California with the intent of acquiring residence for more than a year before the residence determination date, and entirely self-supporting for that period of time.
- 3. Persons below the age of 19 who have lived with and been under the continuous direct care and control of an adult, not a parent, for the two years immediately preceding the residence determination date. Such adults must have been a California resident for the most recent year.

- 4. Dependent children and spouses of persons in active military service stationed in California on the residence determination date. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year. The exception, once attained, is not affected by retirement or transfer of the military person outside the state.
- 5. Military personnel in active service stationed in California on the residence determination date for purposes other than education at state-supported institutions of higher education. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for a year.
- 6. Dependent children of a California resident who has been a California resident for the most recent year. This exception continues until the student has resided in the state the minimum time necessary to become a resident, so long as continuous attendance is maintained at an institution.
- Certain credentialed, full-time employees of California school districts.
- 8. Full-time State University employees and their children and spouses: State employees assigned to work outside the State and their children and spouses. This exception applies only for the minimum time required for the student to obtain California residence and maintain that residence for one year.
- 9. Certain exchange students.
- Children of deceased public law enforcement or fire suppression employees, who were California residents, and who were killed in the course of law enforcement or fire suppression duties.

The initial campus determination of residency classification is made by the evaluations unit of Admissions and Records. The final campus residency decision is made by the Director of Admissions and Records. Written appeals may be made to the Director in Langsdorf Hall 102.

Any student, following a final campus decision on his or her residence classification, only may make written appeal within 120 calendar days of notification of the final decision on campus of the classification to:

The California State University
Office of General Counsel
400 Golden Shore
Long Beach, California 90802-4275

The Office of General Counsel may make a decision on the issue, or it may send the matter back to the campus for further review. Students classified incorrectly as residents or incorrectly granted an exception from nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is subject to discipline pursuant to Section 41301 of Title 5 of the California Code of Regulations. Resident students who become nonresidents, and nonresident students qualifying for exceptions whose basis for so qualifying changes, must immediately notify the admissions office. Applications for a change in classification with respect to a previous term are not accepted.

The student is cautioned that this summation of rules regarding residency determination is by no means a complete explanation of their meaning. The student should also note that changes may have been made in the rate of nonresident tuition, in the statutes, and in the regulations between the time this catalog is published and the relevant residence determination date.

Application Procedures

Applications may be obtained from the admissions office at any of the campuses of The California State University or at any California high school or community college. Requirements for admission to California State University, Fullerton are in accordance with Title 5, Chapter 1, Sub-chapter 3, of the California Code of Regulations. A student unsure of these requirements should consult a high school or community college counselor or the admissions office at California State University, Fullerton.

The CSU advises prospective students that they must supply complete and accurate information on the application for admission, residence questions and financial aid forms. Further, applicants must submit authentic and official transcripts of all previous academic work attempted. Failure to file complete, accurate and authentic application documents may result in denial of admission, cancellation of academic credit, suspension or expulsion (Section 41301, Article 1.1, Title 5, California Code of Regulations).

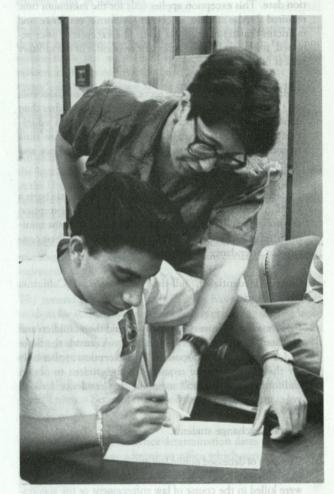
Prospective students, applying for part-time or full-time programs of study, in day or evening classes, must file a complete application as described in the admissions booklet. The \$55 nonrefundable application fee should be in the form of a check or money order payable to The California State University. The application fee may not be transferred or used to apply to another term. Applicants need file only at their campus of first choice. An alternative choice campus and major may be indicated on the application. Applicants should list as an alternative campus only that campus of The California State University that they would be able to attend. Generally, an alternative major will be considered at the first choice campus before an application is redirected to an alternative choice campus. Applicants will be considered automatically at the alternative choice campus only if the first choice campus is unable to accommodate them.

How to Apply for Admission

1. Submit a completed application for admission within the announced filing period accompanied by the required application fee to: California the permanent home with &

> Office of Admissions and Records California State University, Fullerton Fullerton, California 92634

- 2. When asked to do so request required transcripts of record of all previous scholastic work from each school or college attended. The transcripts required at CSUF are:
 - for undergraduate applicants with fewer than 56 transferable semester units: panda maintaining permanent military ad-
 - (a) the high school transcript, and
 - (b) a transcript from each college or university attended.



— for undergraduates with 56 or more transferable semester

(a) a transcript from each college or university

for graduates:

- (a) applicants for unclassified postbaccalaureate standing with no degree or credential objective must submit a transcript from the college or university where the baccalaureate was earned. Further, one transcript from other institutions attended is required as necessary so that the university has a complete record of the last 60 semester units attempted prior to enrollment at Fullerton.
- (b) applicants for a master's degree or teaching credential, or both, must submit two copies of the transcript from each college or university attended.

Note: In addition, all students should have a personal set of college transcripts for advising purposes. All transcripts must be received directly from the issuing institutions and become official records of the university; such transcripts therefore cannot be returned or reissued. Foreign language transcripts must be accompanied by certified English translations.

3. All undergraduate students who have completed fewer than 56 semester or 84 quarter units of transferable work are required to submit scores from either one of two national testing programs before eligibility for admission to the university can be determined. This requirement does not affect undergraduate students who have previously attended CSUF and who have submitted ACT or SAT scores at the time of their first admission. Registration forms and test dates for either test may be obtained from school or college counselors, from the address below, or from campus testing offices. For either test, submit the registration form and fee at least one month prior to the test date.

> ACT Address American College Testing Program, Inc. Registration Unit, P.O. Box 168 Iowa City, Iowa 52240

SAT Address College Entrance Examination Board P.O. Box 592 Princeton, New Jersey 08541

Applicants to graduate programs must submit the scores of any qualifying examinations required in their prospective programs of study.

Impacted Programs

The CSU designates programs to be impacted when more applications are received in the first month of the fall and spring filing period than the spaces available. Some programs are impacted at every campus where they are offered; others are impacted at some campuses but not all. You must meet supplementary admissions criteria if applying to an impacted program.

The CSU will announce before the opening of the fall filing period which programs are designated impacted for the academic year. That announcement will be published in the CSU School and College Review, distributed to high school and college counselors. We will also give information about the supplementary criteria to program applicants.

You must file your application for admission to an impacted program during the first month of the filing period. Further, if you wish to be considered in impacted programs at two or more campuses, you must file an application to each. Nonresident applicants are rarely admitted to impacted programs.

Supplementary Admission Criteria: Each campus with impacted programs uses supplementary admission criteria in screening applicants. Supplementary criteria may include ranking on the freshman eligibility index, the overall transfer grade point average, and a combination of campus-developed criteria. If you are required to submit scores on either the SAT or ACT, you should take the tests no later than December if applying for fall admission. The supplementary admission criteria used by the individual campuses to screen applicants appear periodically in the CSU School and College Review and are sent by the campuses to all applicants seeking admission to an impacted program.

Unlike unaccommodated applicants to locally impacted programs, who may be redirected to another campus in the same major, unaccommodated applicants to systemwide impacted programs may not be redirected in the same major, but may choose an alternative major either at the first choice campus or another campus.

At the time of the preparation of this catalog, no majors at California State University, Fullerton have been declared impacted. Such circumstances are liable to change so early application is advised.

Application Filing Periods

Filing Period Begins Terms Previous November Fall Spring Previous August

Filing Period Duration Until application categories are filled

Application Acknowledgment

Applicants who can be accommodated will receive letters acknowledging their application. The letters are not statements of admission but are commitments by Cal State Fullerton to admit the applicants who establish their eligibility for admission. The acknowledgment letters direct applicants to arrange to have appropriate records forwarded promptly to the admissions office. Applicants will normally receive their acknowledgments within two weeks of the receipt of their applications.

Acknowledgment letters may not be transferred to another term or to other campuses.

Hardship Petitions

Fullerton has established procedures to consider qualified applicants who would be faced with an extreme hardship if not admitted. Prospective hardship petitioners should write to the director of admissions and records regarding specific policies governing hardship admission. companies, you must file an application to each. Numesident

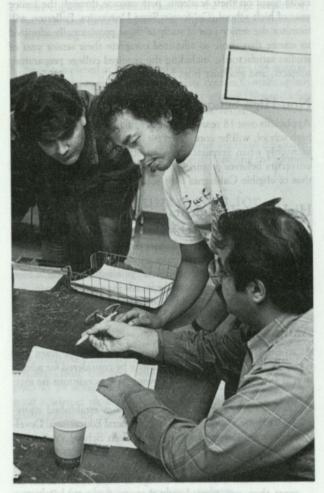
Records Retention

The university retains the admissions materials for those who apply, but who for whatever reason do not enroll for two years. For those who do enroll the university will retain the materials in student folders, including transcripts of the record of work completed elsewhere, for five years beyond the date of last attendance.

Records of academic performance at California State University, Fullerton, including individual student records, faculty grade lists, and graduation lists are kept permanently.

Application-Filing Periods of mon-

Admission Requirements



Admission Requirements for First-Time Freshmen

High School Graduates

You will qualify for regular admission as a first-time freshman if vou

- 1. are a high school graduate
- 2. have a qualifiable eligibility index (see previous chart), and
- 3. have completed with grades of C or better the courses in the comprehensive pattern of college preparatory subject requirements:

English: 4 years

Mathematics, 3 years: algebra, geometry, and intermediate algebra

U.S. History or U.S. history and government: 1 year

Science, 1 year with laboratory: biology, chemistry, physics, or other acceptable laboratory science

Foreign Language: 2 years in the same language (may be waived for applicants who demonstrate competence in a language other than English equivalent to or higher than expected of students who complete two years of foreign language study)

Visual and Performing Arts, 1 year: art, dance, drama/theater, or music

Electives, 3 years: selected from English, advanced mathematics, social science, history, laboratory science, foreign language, visual and performing arts, and agriculture

Subject Requirements

The California State University requires that all undergraduate applicants for admission complete with a C or better a comprehensive pattern of college preparatory study totaling 15 units. A "unit" is one year of study in high school. California secondary school courses that meet the subject requirements are listed in "Courses to Meet Requirements for Admission to the University of California," published for, and available at each high school.

Making Up Missing College Preparatory Subject Requirements: Undergraduate applicants who did not complete the subject requirements while in high school may make up missing subjects in any of the following ways:

- 1. Complete appropriate courses with a C or better in adult school or high school summer sessions.
- 2. Complete appropriate college courses with a C or better.
- 3. Earn acceptable scores on specified examinations.
- 4. Applicants with 56 or more semester (84 quarter) units may complete, with a C or better in each course, one of the following alternatives:
- 1987 or earlier high school graduates: the CSU general education requirements in communication in the English language (at least 9 semester units) and mathematics (usually 3 semester units);
- b. 1988 and later high school graduates: complete a minimum of 30 semester (45 quarter) units to be chosen from courses in English, arts and humanities, social science, science, and mathematics of at least equivalent level to courses that meet general education or transfer curriculum requirements. Each student must complete all CSU general education requirements in communication in the English language (at least 9 semester units) and mathematics (usually 3 semester units).

Please consult with any CSU admissions office for further information about alternative ways to satisfy the subject requirements.

Substitutions for Disabled Students

Disabled student applicants are strongly encouraged to complete college preparatory course requirements if at all possible. If an applicant is judged unable to fulfill a specific course requirement because of a disability, alternative college preparatory courses may be substituted for specific subject requirements. Students who are deaf and hearing impaired, are blind and visually impaired, or have learning disabilities, may in certain circumstances qualify for substitutions for the foreign language, laboratory science, and mathematics subject requirements. Substitutions may be authorized on an individual basis after review and recommendation by the applicant's academic adviser or guidance counselor in consultation with the director of CSUF's Disabled Student Services. Of the paration study to member a student Services.

Although the distribution may be slightly different from the course pattern required of other students, students qualifying for substitutions will still be held for 15 units of college preparatory study. Students should be aware that course substitutions may limit later enrollment in certain majors, particularly those involving mathematics. For further information and substitution forms, please contact the director of CSUF's Disabled Student Services.

Provisional Admission

The university may provisionally admit first-time freshman applicants based on their academic performance through the junior year of high school. California State University, Fullerton will monitor the senior year of study of those provisionally admitted to ensure that those so admitted complete their senior year of studies satisfactorily, including the required college preparatory subjects, and graduate from high school.

Non-High School Graduates

Applicants over 18 years of age, but who have not graduated from high school, will be considered for admission as first-time freshmen only when preparation in all other ways is such that the university believes promise of academic success is equivalent to that of eligible California high school graduates.

High School Students

Students still enrolled in high school will be considered for enrollment in certain special programs if recommended by the principal and the appropriate campus department chair and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a given program and does not constitute the right to continued enrollment.

Adult Students

As an alternative to regular admission criteria, an applicant who is twenty-five years of age or older may be considered for admission as an adult student if the following basic conditions are met:

- 1. Possesses a high school diploma (or has established equivalence through either the Tests of General Educational Development (GED) or the California High School Proficiency Examination).
- 2. Has not been enrolled in college as a full-time student for more than one term during the past five years. Part-time enrollment is permissible.
- 3. If there has been any college attendance in the past five years, has earned a C average or better.

Consideration will be based upon a judgement as to whether the applicant is likely to succeed as a regularly admitted freshman or transfer and will include an assessment of basic skills in the English language and mathematical computation.

Admission Requirements for Undergraduate Transfer Students

You will qualify for admission as a transfer student if you have a grade point average of 2.0 (C) or better in all transferable units attempted, are in good standing at the last college or university attended, and meet the following standard:

- 1. were eligible as a freshman, or a standburg some I
- 2. were eligible as a freshman except for the college preparatory subjects and have completed appropriate college courses in the missing subjects or
- 3. have completed at least 56 transferable semester (84 quarter) units and have completed appropriate courses to make up any missing subjects in college preparatory courses (Nonresidents must have a 2.4 grade-point average or better.)

For these requirements, transferable courses are those designated for that purpose by the college or university offering the courses.

Admission Requirements for International Students

The university is pleased to accept applications from international students. Freshman applicants applying directly from overseas should have outstanding academic qualifications and meet TOEFL score requirements. Applicants who are graduates of foreign secondary schools must have preparation equivalent to that required of eligible California high school graduates. The university will carefully review the previous record of all such applicants and only those with promise of academic success equivalent to that of eligible California high school graduates will be admitted. Undergraduate transfers, who have completed a two-year program in an accredited institution of higher education, with a good academic record and satisfactory TOEFL scores, shall receive priority for admission.

Postbaccalaureate applicants who have completed a bachelor's degree or its equivalent, with a strong academic record, and satisfactory TOEFL scores from an accredited institution may be considered for admission as graduate students.

The university has established deadlines to insure the timely processing of all applications and to enable admitted applicants to make arrangements to reach the U.S. and the campus prior to orientation and registration. Early application is strongly advised due to strong demand for programs. Newly admitted students are required to take an English Placement Examination prior to enrollment in classes (mid-August for fall semester and mid-January for spring semester).

Applications may be submitted according to the following schedule:

For Fall Semester

Apply beginning November 1 of preceding year. Application must be completed with supporting documents by April 15.

For Spring Semester

Apply beginning August 1 of preceding year. Application must be completed with supporting documents by October 1.

All international student applicants must declare a major field of study when the application is filed. Campus programs of study which receive more applications than spaces are available, have been declared impacted, and are not open to nonresidents, foreign or domestic.

All applicants whose native language is other than English are required to present scores for the Test of English as a Foreign Language (TOEFL) before they can be admitted to the university. Undergraduate applicants must achieve a score of 500; graduate applicants a score of 550 and MBA applicants a score of 570. Adequate performance on the TOEFL is mandatory for admission.

Applicants should obtain the TOEFL Bulletin of Information and registration forms well in advance. Copies of this bulletin and registration forms are often available at American embassies and consulates, offices of the United States Information Service, United States educational commissions and foundations abroad, bi-national centers, and several private organizations. Those who cannot obtain locally a TOEFL Bulletin of Information should write to: Test of English as a Foreign Language, Box 899, Princeton, New Jersey, USA, 08541.

International student applicants must include a statement of financial support accompanied by a bank statement from their sponsor. Students sponsored by an international organization or home government agency must include a letter of scholarship support specifying this university and the students proposed degree and program of study. For an international student studying in 1991-92 the cost for nonresident tuition and fees was \$7,102 based upon 15 units of course work each semester with living expenses estimated at \$8,360, totalling \$17,038 (subject to change). Financial support documents must reflect availability of this amount.

Transcripts of all educational documents in languages other than English must be accompanied by translation into English certified by independent agencies. All academic records must be received directly from the issuing institutions and become official records of the university.

International student applicants who are admitted by the university will be issued form I-20 which is used to obtain an F-1 student visa from a U.S. Embassy or Consulate overseas. Students transferring from a U.S. institution will use form I-20 to apply for transfer authorization through the Immigration and Naturalization Service. Arrival, orientation and registration information from the Office of International Education and Exchange will accompany the admission materials mailed to new students.

Admission Requirements for Postbaccalaureate and Graduate Students

See admissions information in the "Graduate Regulations" section of this catalog.

Cancellation of Admission

A student admitted to the university for a given semester but who does not register in the specified semester will have the admission canceled. The student must file a new application form when again seeking admission and must follow the complete application procedure and meet the current admission requirements.

Admission Requirements for Summer Session Students

Although the quality of the program and most of the course offerings are the same as in the regular session, the university does not require an advance application or transcripts from students registering for credit courses in the summer session. Students normally must be high school graduates, however, and are expected to have satisfied the prerequisites for the courses in which they register. In addition, students are expected to file a request to register in the summer session. Admission to summer session does not grant admission to the regular session.

Readmission of Former Students

A student previously enrolled in the university, planning to return after an absence of more than one semester, must file a new application for admission. A student absent for one semester, and who enrolls elsewhere in the interim, must also file an application for readmission. Unless a leave of absence was granted, catalog requirements at the time of readmission will apply. Please see the "Stop-Out Policy" section in the regulations subchapter of this catalog for further information on applications for readmission.

Former Students in Good Standing

A student who left the university in good standing will be readmitted provided any academic work attempted elsewhere since the last attendance does not change his or her scholastic status. Transcripts of the record of any work attempted in the interim are required.

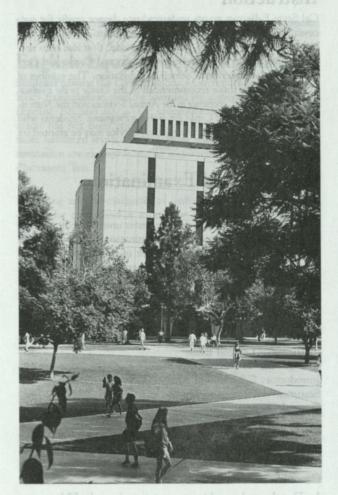
Former Students Who Were on Probation

A student on probation at the close of the last enrollment will be readmitted on probation provided he or she is otherwise eligible. The student must furnish transcripts of any college work taken during the absence.

Former Students Who Were Disqualified

The readmission of a previously disqualified student is by special action only. Ordinarily the university will consider an application for reinstatement only after the student has remained absent for a minimum of one year following disqualification and has fulfilled all recommended conditions. In every instance, readmission is based on evidence, including transcripts of study completed elsewhere after disqualification, that in the judgement of the university warrants such action. If readmitted, the student is placed on scholastic probation.

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Transfer Credits

Evaluation of Transfer Credits

When a student is admitted, the Office of Admissions and Records will evaluate previous college work in relation to the requirements of Fullerton. All degree candidates will be issued a credit summary during the first semester of attendance which serves as a basis for determining remaining requirements for the student's specific objectives. The admissions office will convert quarter units of credit transferred to the university to semester units by multiplying quarter-unit totals by two-thirds.

Once issued to a student, the evaluation remains valid as long as the student enrolls at the date specified, pursues the objective specified, and remains in continuous attendance. The student will not be held to additional graduation requirements unless such requirements become mandatory as a result of changes in the California Administrative Code or the California Education Code. If the student does not remain in continuous attendance and has not applied for and been granted a formal leave of absence, the evaluation issued upon readmission will specify the remaining requirements for the student's objectives.

In view of the foregoing regulations, the student should notify the Office of Admissions and Records immediately of a change in the objective specified in the evaluation. While the evaluation for a student remains valid, the student is held responsible for complying with all changes in regulations and procedures which may appear in subsequent catalogs.

Acceptance of Credit

Credit for work completed at accredited institutions, other than course work identified by such institutions as remedial or in other ways as being nontransferable, will be accepted toward the satisfaction of baccalaureate degree and credential requirements at the university within limitations of residence requirements and community college transfer maximums.

Transfer of Credit From a Community College

Upper division credit is not allowed for courses taken in a community college. Credential credit is not allowed for courses in professional education taken in a community college. This does not invalidate credit for preprofessional courses taken at a community college, such as introduction to education, art or design, arithmetic, or music for classroom teachers. After a student has completed 70 units of college credit at a community college, no further community college units may be accepted for unit credit.

Credit by Advanced Placement

Students who have successfully completed courses in the advanced placement program of the College Entrance Examination Board (defined as receiving a score of 3, 4 or 5) shall be granted credit for each advanced placement course toward graduation, advanced placement in the university's sequence of courses and credit for curriculum requirements.

Cal State Fullerton grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Students who present scores of three or better will be granted semester units of college credit as listed below.

Advanced Placement Course	Equivalent Course: CSUF	Semester Units
Course		
American History	History 180	3
Art History	Art 201A,B	3-6*
Studio Art	Art 103 or 104	
	Art 107A or 107B	
Biology	Bio Sci 101	3
Chemistry	Chemistry	6
	120A,B	
Computer Science	Computer Science 121	3***
Saryfinon-kiluodennska	Computer Science 131	3
English	English 101	30 301110
1996) hobilities a service	English 200	rage 3 visoside
European History	History 110B	iam3 mobus
French	French 101, 102	10
German	German 101, 102	10****
Latin 4	Latin 101	3
Latin 5	Latin 101, 102	6
Math A & B	Math 150A	4
Math B & C	Math 150A,B	8
Physics	Physics 211A,B	6
Spanish	Spanish 101, 102	10****
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Credit for Extension and Correspondence Courses

The maximum amount of credit through correspondence and extension courses which may be allowed toward the bachelor's degree is 24 units, if otherwise applicable.

*Consult the Department of Art for applicability of advanced placement examination credit.

***Consult the Department of Computer Science for applicability of advanced placement examination credit.

****No Credit for literature

Credit for Noncollegiate Instruction

Cal State Fullerton grants undergraduate degree credit for successful completion of non-collegiate instruction, either military or civilian, appropriate to the baccalaureate, that has been recommended by the Commission on Educational Credit and Credentials of the American Council on Education. The number of units allowed are those recommended in the Guide to the Evaluation of Educational Experience in the Armed Services and the National Guide to Educational Credit for Training Programs. Students who have at least one year of active military service may be granted six or 12 units of undergraduate credit.

College Level Examination Program

The university shall accept three semester units of credit for each of the following College Level Examination Program (CLEP) examinations, subject to achievement of the scores indicated, provided the examination was not taken previously within one calendar year and that degree credit has not been granted for previous course work at the equivalent or at a more advanced level than for the examination in question.

Examination	Passing score
Mathematics General Exam	50*
College Algebra-Trigonometry	49
Introductory Calculus and Analytic Geometry	48
Statistics	49
General Chemistry	48

Fullerton may grant additional credit and advanced standing based upon CLEP examination results using as minimum standards:

General Examinations

- That the student achieve a score at or above the 50th percentile, college sophomore norms.
- That no unit credit be granted for any test in the general examinations, but that up to six units of general education requirements be waived for each test completed with the appropriate score.

Subject Examinations

- That the student submit a score at or above the 50th percentile of those in the norm group who earned a mark of C or better.
- That equivalency to Fullerton courses be determined by the appropriate academic department in conjunction with the Office of Admissions and Records.

^{**}To complete the requirement for Chemistry 120A, B, the student must successfully complete four units of Chemistry 120A and 120B laboratory at Cal State Fullerton.

[&]quot;To complete the requirement for Physics 211A,B the student must successfully complete two units of Physics 211A and 211B laboratory at CSUE.

^{*}On both parts of examination.

3. That university credit shall have not been previously earned in the courses in question.

In no case will credit so awarded count toward residence credit.

English Equivalency Examination

Students passing the California State University English Equivalency Examination shall be awarded six semester units of credit (English 101 and 200 — GE categories A.1. & C.4.) provided credit has not been granted previously at the equivalent or at more advanced levels. Further, those who pass this optional examination are exempt from the requirement to take the English Placement Test.

Following are the categories of performance and scores which qualify for credit and/or exemption of the English Placement Test:

1. Pass for credit and exemption from the English Placement Test

A student receiving a minimum score of 14 on the EEE essay and a minimum multiple choice converted score of 51 shall receive credit and exemption. A student earning a minimum score of 15 on the EEE essay and a minimum multiple choice converted score of 43 shall also receive credit and exemption.

2. Exemption from the English Placement Test (EPT) only.

Students scoring at least 12 on the essay with a minimum converted multiple choice score of 36 or more shall receive exemption from the EPT, but no credit. Also, students with an essay score of at least 15 shall be awarded exemption, regardless of the converted multiple choice score.

brudents scoring at least 12 on the essay with a minimum

English Equivalency Examination

Régistration

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Registration Information

Orientation

Various opportunities are provided for new students to obtain information relating to academic programs, student services and activities, and other aspects of university life. Information about specific programs is published separately.

Registration

Class Schedule

A complete listing of courses offered will be found in the class schedule published prior to the start of each semester. This publication, which may be purchased in the Titan Bookstore, also includes detailed information pertaining to the semester including class enrollment and fee payment procedures.

It is important that students familiarize themselves not only with the academic policies stated in this catalog but also with the requirements and procedures in the class schedule as both are used in the selection of classes for the semester.

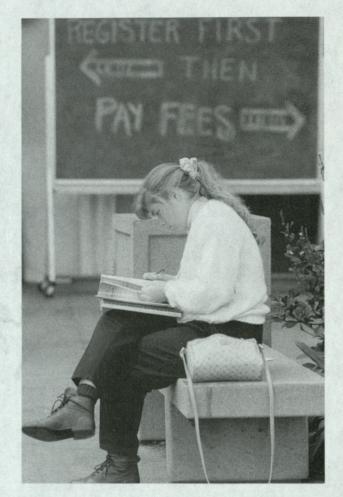
Registration

Registration involves two steps — class enrollment and fee payment, and may be accomplished through early registration by mail, walk-through registration during the month preceding the first day of instruction, or through late registration during the first three weeks of instruction. Most students should find early registration by mail advantageous.

At registration, every student is required to file a study program with the Office of Admissions and Records. The filing of a program by the student and its acceptance by the university obligates the student to perform the designated work to the best of his or her ability. It is emphasized that registration does not become official until all fees have been paid.

Computerized Records System

The student records system, including the registration process, is computerized. It is a fact of life in a large institution such as Cal State Fullerton that computerization is essential. Thus, there are requirements for data cards, code numbers, student file numbers and for meeting precise criteria for recording data, which introduce impersonal elements in the student records system. Despite these conditions, every effort is made to provide courteous, efficient and personalized service to students and the entire university community. To assist in providing this service, students are urged to be careful and accurate in preparing forms, especially the course request registration forms and change of program forms. Accurate preparation of information will assure each student of error-free records.



Controlled Entry Classes

In general, all courses listed in the semester class schedule shall be available to all matriculated students except for appropriate academic restrictions as stated in the schedule and the catalog. These restrictions, including special qualifications and other academic limitations, on class entry shall be published in the class schedule as appropriate footnotes to the designated class or class section and shall be consistent with the catalog.

Late Registration

The last day to register late each semester will be announced in the class schedule. Late registrants will find themselves handicapped in arranging their programs and must pay a \$25 late registration fee in addition to regular fees.

Changes in Program After Registration

Each student is responsible for the program of courses listed at registration. Changes may be made thereafter only by filing a change of program form in the Office of Admissions and Records following procedures announced in the class schedule.

Students may add classes to their programs of study during the first three weeks of instruction. They may drop classes through the first two weeks. After the second week of instruction the university expects students to complete all courses in which they are enrolled. If students must withdraw after the deadline for dropping classes published in the class schedule, they are subject to the withdrawal policy contained in the "University Regulations" section of this catalog. In all instances, dropped classes must be reported to the Office of Admissions and Records; students not attending class are not dropped automatically.

Concurrent Enrollment Outside the CSU System

A student enrolled at the university may enroll concurrently for additional courses at another institution outside the CSU system without advance written approval from the student's academic adviser or the Office of Admissions and Records. Students are reminded that the study load in the proposed combined program of study may not exceed the maximum number of units authorized at this university.

Enrollment at Other CSU Campuses

Fullerton students may enroll at other campuses of The California State University either while concurrently enrolled at Cal State Fullerton or as visitors. There are certain eligibility requirements and enrollment conditions that must be met, including completion of at least one semester at Cal State Fullerton and being in good academic standing. Information and application forms may be obtained from the Office of Admissions and Records.

Visitor Enrollment

Students enrolled at other campuses of The California State University may enroll at Cal State Fullerton while concurrently enrolled at their home campus or as visitors. Information about eligibility requirements, enrollment conditions and application forms are available from the Office of Admissions and Records at the home campus.

Auditors

A properly qualified student may enroll in classes as an auditor. The student must meet the regular university admission requirements and must pay the same fees as other students. See the description of Audit in the "University Regulations" section of this catalog under "Administrative Symbols."

Disabled Students

Disabled students who require assistance should consult with Disabled Student Services prior to the announced semester registration period so that special arrangements can be made.

Veterans

California State University, Fullerton is approved by the Bureau of School Approvals, State Department of Education, to offer programs to veterans seeking benefits under state and federal legislation. All students seeking veterans' benefits must have a degree or credential objective.

Applications for benefits should be filed well in advance of the semester in which the veteran plans to use these benefits to have the authorization at the time of registration.

Schedule of Fees 1991-92

Tuition is not charged to legal residents of California. The 1991-92 and 1992-93 schedule of fees will be published in the class schedules for those years. The following are the fees and nonresident tuition assessed at the time of preparing this catalog.

Application fee (nonrefundable)

Payable by check or money order at time application is made	
All Students (Per Semester Fees)	
State University fee	
0 to 6 units\$231	
7 or more units 402	
Facilities fee	
Associated Students fee	
Instructionally-related activity fee	
The suident must race; the regular university admission backing	
Nonresident and Foreign Visa Students	
Nonresident tuition fee (in addition to fees	
charged all students) per unit \$205	
Summer Session 21113-bottle bottlese []	

University Union fee **Extension Fees**

Per unit	arresses addit	RETURNED IN	THE STREET	see current bulletin

University I.D. card\$3

Course fee per unit see current bulletin Associated Students fee

Other Fees or Charges

Late registration fee (in addition to other fees
listed above)
Check returned from bank for any cause 10
Transcript fee
Graduation and diploma fee
Failure to meet an administrative time limit 20
Miscellaneous course fees Selected courses require instructional fees as indicated in the class sched-
ule and under the course description in the catalog.



Consult current class schedule for further information.

Auditors pay the same fees as others.

Fees are subject to change by the Trustees of The California State University without advance notice.

Alan Pattee Scholarships

Children of deceased public law enforcement or fire suppression employees, who were California residents and who were killed in the course of law enforcement or fire suppression duties, are not charged fees or tuition of any kind at any California State University campus, according to the Alan Pattee Scholarship Act, Education Code Section 68121. Students qualifying for these benefits are known as Alan Pattee scholars. For further information contact the Admissions Office, which determines eligibility.

Waiver of Fees

Section 32320 of the California Education Code provides for the waiver of certain fees other than nonresident tuition, for certain veterans' dependents. Those who meet one or more of the following criteria should present to the university registrar a certificate of eligibility obtained from the Division of Educational Assistance, California Department of Veterans Affairs, on or before the date of registration.

- A. Children of veterans who have service-connected disabilities and whose annual income not including governmental compensation for such service-connected disability does not exceed \$5,000.
- B. Children of veterans killed in action or because of a service-connected disability, where the annual income of such children, including the value of any support received from parents and the annual income of surviving parents, does not exceed \$5,000. No limitations on age or length of residency.

Refund of Fees

Details concerning fees which may be refunded, the circumstances under which fees may be refunded, and the appropriate procedure to be followed in seeking refunds may be obtained by consulting Section 41803 (parking fees), 41913 (nonresident tuition), 42019 (housing charges) and 41802 (all other fees) of Title 5, California Code of Regulations. In all cases it is important to act quickly in applying for a refund.

Information concerning the policy and appropriate procedure to be followed in seeking a refund may be obtained from the Office of the Registrar or the Cashier's Office.

Parking Fees anobuse bessioose

Semester pass (nonreserved spaces):	
Regular and limited students	
(4-wheeled vehicle) \$54.00	
Regular and limited students	
(2-wheeled vehicle))
Coin operated gate per exit)
Summer session (4-wheeled vehicle) 36.00	0
Summer session (2-wheeled vehicle) 9.00	0

Typical Student Expenses

Typical school year budgets for California residents living at home or making other housing arrangements will vary widely. It is estimated that, including a \$4,700 yearly allowance for room and board, and \$400 for books and supplies, the total cost will approximate \$7,600 for an unmarried person. Nonresident students must also allow for nonresident tuition in addition to those fees listed above.

State University Fee

The state university fee provides financing for the following student services.

- Social and Cultural Development Activities. Provides for the coordination of various student activities, student organizations, student government and cultural programs.
- Counseling. Includes the cost of counselors' salaries and clerical support, plus operating expenses and equipment.
- 3. Testing. Covers the cost of test officers, psychometrists, clerical support, operating expenses and equipment.
- Placement. Provides career information to students and faculty for academic program planning and employment information to graduates and students.
- Financial Aids Administration. Includes the cost of the counseling and business services provided in connection with the financial aid programs.
- Health Services. Provides health services to students and covers the cost of salaries of medical officers and nurses and related clerical and technical personnel, as well as operating expenses and equipment.
- Housing. Supports personnel who provide housing information and monitor housing services available to students.
- Student Affairs Administration. Covers 50 percent of the cost of the office of the vice president for student affairs, which has responsibility for the overall administration of student services.

Associated Students Fee

The law governing The California State University provides that a student body fee may be established by student referendum with the approval of two-thirds of those students voting. The Associated Students fee was established at California State University, Fullerton by student referendum in December 1959. The same fee can be abolished by a similar two-thirds approval of students voting on a referendum called for by a petition signed by ten percent of the regularly enrolled students (*Education Code*, Section 89300). The level of the fee is set by the Chancellor who may approve a fee increase only following a referendum approved by a majority of the students. The Associated Students fee supports a variety of cultural and recreational programs, child care centers and special student support programs.

Average Annual Costs and Sources of Funds Per Full-Time Equivalent Student

The 20 campuses and the Chancellor's Office of The California State University are financed primarily through funding provided

by the taxpayers of California. The total State appropriation to the CSU for 1990-91, including capital outlay and employee compensation increases, is \$1,904,029,000. The total cost of education for CSU, however, is \$2,111,513,409 which provides support for a projected 274,500 full-time equivalent (FTE)* students.

The total cost of education in the CSU is defined as the expenditures for current operations, including payments made to the students in the form of financial aid, and all fully reimbursed programs contained in State appropriations, but excluding capital outlay appropriations. The average cost of education is determined by dividing the total cost by the total FTES. The average cost is further differentiated into three categories: State support (the State appropriation, excluding capital outlay), student fee support, and support from other sources (including federal funds).

Thus, excluding costs which relate to capital outlay (i.e., building amortization), the average cost of education per FTE student is \$7,692. Of this amount, the average student fee support per FTE is \$1,183. The calculation for this latter amount includes the amount paid by nonresident students.

Source of Funds and Average Costs for 1990/91 CSU Budget (Projected Enrollment: 274,500 FTE)

	Amount	Cost Per Student (FTE)	Percentage
Total Cost of Education	\$2,111,513,409 ^b		100.0
State Appropriation	1,691,403,000°	6,162	80.1
Student Fee Support	324,672,787	1,183 ^d	15.4
Support from Other Sources	95,437,622	348	4.5

^{*} For budgetary purposes, full-time equivalent (FTE) translates total head count into total academic student load equivalent to 15 units per term. Some students enroll for more than 15 units; some students enroll for fewer than 15 units.

b The total cost of education does not include the amount related to lottery and the capital investment of the CSU. The estimated replacement cost of all the system's permanent facilities and equipment on the 20 campuses is currently valued at \$6.5 billion, excluding the cost of land.

5 This figure does not include the capital outlay appropriation of \$212,626,000.

d The average costs paid by a student include the State University Fee, Application Fee, and Nonresident Tuition. Individual students may pay less than \$1,183 depending on whether they are part-time, full-time, resident or nonresident students.



Financial Aid

Financial Aid refers to a wide variety of programs designed to assist students in meeting the cost of attendance at California State University Fullerton. These programs include gift aid in the form of scholarships and grants which do not require repayment or performance of work, student loans which require repayment over a period of time at a specified interest rate, and employment programs through College Work-Study or Student Assistance. The Emergency Loan program also provides students with resources to meet unusual or unexpected emergencies through a short-term loan.

Students who have specific questions regarding financial aid or who would like further information should contact the Financial Aid Office.

Eligibility Requirements

The following eligibility requirements apply to all financial aid programs except emergency loans and scholarships.

To be considered eligible for most student assistance programs, the demonstration of financial need is one of the primary requirements. However, alternate forms of financial assistance such as scholarships, emergency loans, and parental loan programs should also be explored since many of these alternate sources of aid do not necessarily require the demonstration of financial need. Financial need is the difference between the reasonable and approved costs incurred by a student at CSUF and all of the resources available to the student, including contributions from parents, student (and spouse, if applicable), and other aid the student may be eligible to receive. The university uses a nationally accepted formula developed by the federal government in determining the family contribution. In addition to demonstrating financial need, all applicants for federal student financial assistance must meet the following eligibility requirements:

- Educational Opportunity Program Grant Spans 1. be a U.S. citizen or national or permanent resident of the U.S. Eligible students also include citizens of the Marshall Islands and permanent residents of the Trust Territories as well as other eligible non-citizens who can document their status in the United States as other than for a temporary purpose. Students should be aware that the citizenship requirements apply to all forms of federally-funded assistance but may differ for State supported grant programs and private scholarships;
- 2. be admitted to or enrolled on at least a half-time basis in a program of study leading to a degree, certificate or recognized credential offered by the institution. (Graduate students pursuing prerequisites required to gain admission to a graduate program may be eligible for limited loan eligibility);

- maintain satisfactory academic progress in the course of study according to the standards and practices of the university;
- not be in default on any loan made from a student loan fund and not owe a refund on grants previously received for attendance at any college or university.
- submit a completed Student Aid Application for California (SAAC) and all documentation requested by the Financial Aid Office; and
- 6. be registered for the Draft with the Selective Service or certify that he/she is not required to register.

Scholarships & Institutional Grants

Scholarships

Scholarships and awards should not be viewed as merely another form of financial aid, even though many scholarships and awards do take financial need into consideration during the review process. They are given to honor outstanding achievement. Many scholarships are available to all students and are known as general scholarships; other scholarships have special objectives may be awarded to students pursuing selected majors, underrepresented students, students with certain career goals, or to those living in certain geographic areas.

Most scholarship applications are due the last Friday in February. Generally, the recipients are selected during the spring semester and the funds are awarded the next academic year. Full details regarding scholarship requirements and application deadlines are in the Scholarship and Awards Bulletin which is available the first week in December. The bulletins and applications can be picked up at the Financial Aid Office and all the Deans' Offices.

Educational Opportunity Program Grant (EOPG)

The Educational Opportunity Program Grant of the California State University system is available to disadvantaged undergraduate students who are residents of California and who are officially enrolled in the EOP (contact the EOP Office for program enrollment procedures). EOP grants range from \$200 to \$1,000 per year for a total of five academic years.

State University Grant (SUG)

The State University Grant is available for graduate and undergraduate students who are residents of California and who are enrolled in at least six units. All applicants who file a SAAC will be considered for this grant. The maximum SUG for 1990/91 was \$567 for undergraduate and graduates.

State Grants Cal Grant A & B

The State of California through the California Student Aid Commission, administers grant programs for undergraduates seeking a postsecondary education. To qualify for Cal Grant A or B, a student must be a California resident attending an eligible school or college within the State, must be making satisfactory academic progress, and must not owe a refund on any State or Federal grant or have defaulted on a student loan. Applicants for Cal Grant funds are required to complete a Student Aid Application for California (SAAC) no later than March 2 prior to the fall semester for which the grant will be used.

Cal Grant A is designed to assist low and middle income students with the cost of tuition and fees. Recipients are selected on the basis of financial need and grade point average. During the 1990/91 academic year awards averaged approximately \$950 at California State University.

Cal Grant B is designed to provide very low income students with a living allowance. In addition, Cal Grant B recipients may also receive assistance with tuition and fee cost. First year students receiving Cal Grant B will generally receive a living allowance up to a maximum of \$1,410 for the academic year. During their 2nd, 3rd and 4th year of postsecondary education, Cal Grant B recipients will receive the living allowance in addition to tuition and fee assistance. During the academic year of 1990/91 the maximum Cal Grant B award at California State University, Fullerton was approximately \$2,362.

Graduate Fellowships

The Student Aid Commission awards approximately 500 Graduate Fellowships annually. Candidates must be a legal resident of California, plan to pursue recognized graduate degrees at an eligible California graduate school and must demonstrate their intent to become college or university faculty members. Teacher credential or certificate programs do not meet the requirements of the fellowship program.

The fellowships assist with tuition and fees at both independent and public colleges and universities. In 1990/91, awards averaged \$844 at CSU.

Applicants for Graduate Fellowship funds are required to complete a Student Aid Application for California (SAAC) no later than March 2 prior to the fall semester for which the grant will be used. Applicants must also submit a 1991-92 Graduate Fellowship endorsement form to the Student Aid Commission no later than April 10. The endorsement form serves to demonstrate the student's intent to pursue a teaching career at the university or college level.

Federal Programs

Pell Grant

The Pell Grant program is the largest of all federal student grant programs and is the "foundation" of all forms of student assistance. Pell Grants are available to undergraduates who meet all eligibility requirements described earlier and who have not already obtained a bachelor's degree. The amount of the grant is based on financial need and ranged from \$200 to \$2,300 for students enrolled full-time during the 1990-91 award year. Parttime undergraduates are also eligible as long as half-time enrollment is maintained. Pell eligibility is generally limited to five full years of undergraduate study. Students may apply by completing a Student Aid Application for California (SAAC) or the Application for Federal Student Aid (AFSA) if the student is applying for Pell Grant funds only.

Supplemental Educational Opportunity Grant (SEOG)

The federal Supplemental Educational Opportunity Grant supplements other forms of financial assistance offered to an eligible student. Applicants must meet all other eligibility requirements. Although designed to meet the needs of undergraduate students with the greatest amount of need, SEOG funds are provided to schools and colleges by the federal government and awards to students are made according to the school's awarding practices. During 1990-91, award amounts to CSUF students ranged from \$200 to \$1,000.

Perkins Loans

Perkins Loans are low-interest federal loans (5 percent interest) available to undergraduate and graduate students. Based on their demonstrated financial need, students may borrow up to \$4,500 during the first two years of study and up to a maximum borrowing limit of \$9,000 for completing an undergraduate degree. The combined borrowing limit for completion of undergraduate and graduate study is \$18,000. Students borrow through the Perkins Loan program at their school or college and availability of funds is dependent on repayment of the school's previous borrowers and annual federal allocations to the program. During the 1990-91 award year, loan amounts ranged from \$400 to \$1,000 at CSU Fullerton. Interest does not accrue on the loan and there is no repayment while the student is enrolled at least half-time. Repayment begins nine months following graduation, withdrawal, or enrollment below half-time status.

College Work-Study

The College Work-Study program provides students with employment opportunities both on and off campus. Eligibility for the program is determined by the school or college based on the student's demonstrated financial need. Students awarded College Work-Study receive an allocation of funds to be earned through part-time employment with an approved employer. The hourly wage will depend on the type of job and placement assistance is provided by the school or college. Students can take advantage of this employment opportunity to work in areas related to their studies or career plan as well as to minimize their student loan borrowing. Undergraduates and graduate students are eligible to participate in the program.

Stafford Student Loan

The Guaranteed Student Loan is a long-term loan made to students by banks, savings and loan associations and credit unions. The loans are guaranteed by the State of California and insured by the federal government.

The federal government pays interest on the loan while the student is in school. Six months following graduation, withdrawal or less than half-time enrollment, borrowers begin repayments at eight percent annual interest. Effective July 1, 1988, new Stafford Student Loan borrowers will be required to repay the loan at 8% annual interest through the fourth year of repayment with an increase to 10% beginning with the fifth year of repayment. Prior Stafford Student Loan borrowers will continue to borrow at their previous interest rate.

Undergraduates may borrow a maximum of \$2,625 per year for the first two years and a maximum of \$4,000 per year for the remaining years of undergraduate study to a maximum of \$17,250.

Graduate and professional students may borrow up to \$7,500 per year. The aggregate loan maximum for combined undergraduate and graduate borrowing is \$54,750. Each lending institution has different policies regarding this program, so it is important to ask questions of your lender.

Application Periods

The deadlines listed below are approximate and are subject to annual changes. Consult with the Financial Aid Office for current dates. but nonminered the solution labely and but valued

Emergency Loans

Emergency loans are available from the first day of classes until 30 days before the end of the semester.

Scholarships showed and allowed the varieties and most

Applications for scholarships are due in the Financial Aid Office by late February. Students should contact the Financial Aid Office for an application in mid-January.

Bureau of Indian Affairs Grants

Consult with the BIA for exact dates. The application deadline is usually in mid-lune.

Stafford Loans (Formerly GSL)

Apply after June 1 for the fall semester and academic year, and after November 1 for the spring semester.

Cal Grants and Graduate Fellowships

First-time applicants must complete and mail the Student Aid Application for California (SAAC) and for graduate students also the SAAC Supplement form by March 2.

Pell Grant only (no other aid desired)

Apply by May 1 of the academic year for which aid is desired.

All Other Aid

Priority is given to SAAC applications mailed between January 1 and March 2 for the next academic year.

Rights and Responsibilities of Students Receiving Aid Rights

All students are entitled to and are guaranteed fair and equitable treatment in the awarding of financial aid. In addition, there shall be no discrimination of any kind. Appeals procedures exist for anyone who feels that a violation has occurred; consult with the director of financial aid for details.

All students have the right to receive full and open information about various financial aid programs and the status of their eligibility. In addition, they have the right to know the selection and review processes used in awarding financial aid.

All students have the right to know the costs of attending the institution, the refund policies in case of withdrawal from the university, the academic programs offered by the university, the faculty and physical facilities of the institution, and data regarding student retention at the university.

Responsibilities And and statement of the second state

All financial aid recipients agree to carry and complete a specific number of units each semester, report graduation or withdrawal from the university and to notify the Financial Aid Office of any changes in their financial or marital status, or unit load.

Recipients of financial aid must use the funds only to meet education costs. Any other use of the funds is prohibited by law.

Students who are receiving financial aid must maintain satisfactory academic progress. See the section below for details.

Bureau of Indian Afrairs Grants real or a ballo

Satisfactory Academic Progress Standards

The Higher Education Act, as amended, requires that students maintain satisfactory academic progress in the course of study they are pursuing according to standards and practices set by each college and university.

Students should be aware that these standards must be the same or stricter than the standards for a student enrolled in California State University, Fullerton in the same academic program who is not receiving assistance under a Title IV program.

Qualitative Standards (Measurement by Grades)

All students, including financial aid recipients, must maintain scholastic academic progress as outlined in the California State University, Fullerton catalog.

Students are expected to complete their educational objective, degree, or certificate according to the following schedule:

Required for Degree	Max. Completed Units
174 units (BA)	lene 'A ophome must meet all of heagh designed to 1051 the need
Graduate: Small COS	
30 or more depending	lender of the colleges of the football of the colleges of the

A student who cannot complete his/her objective within the maximum attempted units outlined above according to his/her degree standing will not be eligible for any financial aid from any federal or state source.

Successful Completion Requirement

In order to maintain satisfactory academic progress, each student must have a cumulative C average or an academic standing consistent with the institution's requirements for graduation by the end of the student's second academic year. This requirement is in addition to the requirement that a student maintain scholastic academic progress at the end of each semester as defined by California State University, Fullerton. Since California State University, Fullerton academic probation and disqualification standards permit a student to enroll on academic probation with a cumulative grade-point average of 1.86 or better with fewer than 60 semester units, the equivalent of the end of the student's second academic year, CSUF meets the provisions of the Higher Education Amendments of 1986. As a result, a student who maintains a 1.86 or better cumulative grade-point average at the end of the second academic year will be considered to be making satisfactory academic progress.

Semester Grade Review

Even though California State University, Fullerton will measure Satisfactory Academic Progress according to the number of units successfully completed at the end of each academic year, federal financial aid program regulations require each college and university to determine that a student is maintaining Satisfactory Academic Progress each payment period and each time it certifies a Stafford Loan or SLS. To meet this requirement, a student will have been certified as having made Satisfactory Academic Progress for payment purposes at the end of the fall semester if the student meets the "qualitative standards" as outlined above.

Determination of Units Completed

The following grades will be counted in determining units successfully completed: A, B, C, D, CR (credit).

SP (Satisfactory Progress) and RD (Report Delayed) will be temporarily considered as units completed provided these designations are replaced with an acceptable final grade within one calendar year from the beginning date of the semester. If the final SP grade is not posted within one year, the student must submit a written appeal to the Financial Aid Office. If a Report is Delayed beyond one year, the student must submit to the Financial Aid Office a statement from the faculty member explaining the cause for the extended delay.

The following grades will count as units attempted but will not count as units completed: F, NC (No Credit), W (Withdrawal), AU (Audit), I (Incomplete), U (Unofficial Withdrawal).

If a grade is changed after the official posting for a semester, it is the student's responsibility to bring verification of the change to the Financial Aid Office.

Repeated Courses: A repeated course in which the student initially received a D or F will not count as units attempted or completed since an improved grade will only result in a grade change and not additional unit credit. A repeated course in which a student withdrew or received an unauthorized incomplete will count as units attempted and completed.

Remedial Courses will be considered as units completed for purposes of reviewing a student's Satisfactory Academic Progress only when the university or department requires a student to take a remedial course(s) as part of his/her program whether or not the student receives unit credit towards graduation.

Failure to Maintain Satisfactory Academic Progress

A student who fails to maintain the qualitative or quantitative measurement standards will be defined as having failed to maintain Satisfactory Academic Progress and will be ineligible to receive any federal or state financial aid.

Reinstatement of Financial Aid Eligibility

Students whose financial aid eligibility has been terminated for failure to complete the minimum number of units may have their aid eligibility reevaluated when the deficit units are completed and the student has demonstrated capability of making satisfactory academic progress in accordance with the incremental completion rate.

Appeal

Students who fail to meet the Satisfactory Academic Progress standards and who are disqualified from financial aid eligibility may appeal their disqualification to the Director of Financial Aid by completing and submitting a written appeal within 10 days of receipt of the "Notification of Financial Aid Disqualification." No appeal will be approved unless the mitigating circumstance is unique and compelling, e.g., documented injury which prevented the student from attending classes, parental or spousal death, extended illness, etc.

The "Financial Aid Petition" is available in the Financial Aid Office.

Eligibility for Multiple Degrees

Students will be eligible to receive financial aid towards the completion of their first bachelor's degree and towards their first graduate degree. the areas and the considerate to be used for the larger to

Refund Policy

As stated in the appropriate CSUF Class Schedule, a student may be entitled to a refund of fees if he/she withdraws from the University or drops units. If a student received financial aid, fee refunds will be credited partially or completely to various financial aid accounts according to the formulas below:

Since financial aid is awarded to help meet educational costs, financial aid is considered to be used first for direct educational costs (fees). Therefore, if a student withdraws and is scheduled to receive a refund of fees, all or part of this refund will be used to reimburse the financial aid program(s) from which the student received funds.

If a student received financial aid in excess of direct fees, a repayment of additional financial aid funds may be required.

- I. Refund to be returned to Title IV programs:
 - A = Amount of fee refunded
 - B = Total Title IV aid (excluding CWS) for semester Total aid awarded (excluding CWS) for semester.

 $A \times B = Amount of refund to Title IV$

- Distribution order of Title IV portion of refund among Title IV programs:
 - 1. Perkins (not to exceed the amount disbursed)
 - 2. SEOG (not to exceed the amount disbursed)
 - 3. PELL (not to exceed the amount disbursed)
 - 4. Stafford (not to exceed the amount disbursed)
 - 5. SLS (not to exceed the amount disbursed)
- III. When the Stafford is the only Title IV aid received (excluding CWS) the following distribution formula will be used:

Refund to Stafford = Amount of Stafford Estimated cost of attendance for boirge and or from attending classes, parental or spousal death,

- IV. Any remaining refund amount not credited to Title IV programs as per the above formulas will be distributed as follows:
 - 1. EOPG (not to exceed the amount disbursed)
 - 2. SUG (not to exceed the amount disbursed)
 - 3. Student (remaining amount of refund)

Repayment Policy

Since financial aid is awarded to help meet educational costs, financial aid is considered to be used first for direct educational costs (fees). Therefore, if a student withdraws and is scheduled to receive a refund of fees, all or part of this refund will be used to reimburse the financial aid program(s) from which the student

If a student received financial aid in excess of direct fees, a repayment of additional financial aid funds may be required.

Students who receive financial aid and later terminate their enrollment by dropping out or by withdrawing and who received cash disbursements of Title IV financial aid for payment of their non-institutional costs require institutional review to determine if there has been an overpayment, and therefore, if a repayment is required. Repayment designates the amount that a student must repay of the funds he/she received in cash that could not have reasonably been spent for non-institutional costs during the portion of the term that the student was enrolled.

Total Title IV funds disbursed in cash to the student minus Stafford, SLS, CWS minus non-institutional costs paid by the student from the disbursement for the portion of the payment period during which the student was enrolled (room, board, books, supplies, transportation, miscellaneous expenses) = overpayment.

he following grades will count as units attempted but will had Overpayment X Total amount of Title IV (minus CWS, Stafford, SLS) ÷ Total amount of aid (minus CWS, Stafford, SLS) = Title IV Repayment

Order of distribution for repayment: Perkins, SEOG, then Pell.

Minerally - lations -

University Regulations

Each student is responsible for meeting the requirements printed in the university catalog and all published regulations of the university.

The university establishes certain academic policies and requirements which must be met before a degree is granted. These include major and unit requirements and prerequisites. While advisors, directors, deans and faculty will provide a student with information and advice, responsibility for meeting these requirements rests with the student. Since failure to satisfy these requirements may result in the degree being withheld, it is important for each student to become thoroughly acquainted with all regulations. The catalog and the semester class schedule, available in the Titan Bookstore, are the best sources of information on current policy and regulations.

The student also has the responsibility for securing the consent of the instructor before enrolling in a course with prerequisites that the student has not completed.

To ensure receipt of timely information and accurate grade reports from the university, each student must keep the Office of Admissions and Records informed of changes in personal data, including changes in name, address and program of study. Each student is mailed a student data verification each semester during the third week of classes to ensure the accuracy of demographic and official enrollment data for that term; enrollment corrections must be reported to the registrar by the 20th day of classes, using Change of Program forms. Between the 15th and 20th day of classes, a \$20 administrative late fee will be required to make such changes. Other corrections should be reported on the form and returned to the Office of Admissions and Records.

Enrollment Regulations

Unit of Credit

Each semester unit represents three hours of university work per week for one semester. Courses are of three types:

Lecture: one hour in class plus two hours of study. Activity: two hours of class plus one hour of study. Laboratory: three hours of laboratory activity in class plus one hour of study outside class.

Some courses may combine two or more of these types. All required courses carry unit credit.

Classification in the University

Undergraduate students who have completed 0-29 semester units of work are classified as freshmen, 30-59 semester units as sophomores, 60-89 semester units as juniors, and 90 or more as seniors.

Maximum Number of Units

Undergraduate students' requests to enroll for more than 19 units must be approved by the student's advisor and the department chair of the major. If such requests are denied, appeals may be made to the appropriate school dean. (Undeclared majors must receive the approval of the coordinator of undergraduate studies.) The minimum full-time program is 12 units.

A student whose academic record justifies a study list in excess of the normal may request to be allowed to enroll for extra units. Request forms may be obtained from the Office of Admissions and Records. In general, only students with superior academic records are allowed to enroll for more than the maximum. In addition, the need to enroll for the extra study must be established. Factors such as time spent in employment or commuting, the nature of the academic program, extracurricular activities and the student's health should be considered in planning a study program. Students who are employed or have outside responsibilities are advised to reduce their program of study.

The minimum and maximum units of a full-time program of study for graduate students are defined in the "Graduate Regulations" section of this catalog.

Graduate Level Courses

Graduate level (500) courses are organized primarily for graduate students. Undergraduate students may be permitted to enroll in a graduate level course if:

a. they have reached senior status (completed a minimum of 90 semester units)

- b. have the academic preparation and prerequisites required for entry into the course
- c. gain the consent of the instructor.

Students wishing to use 500-level coursework taken during their undergraduate degree toward a master's degree should read the section on postgraduate credit in the "Graduate Regulations" section of this catalog.

Class Attendance

While class attendance is not recorded officially by the university, regular attendance in class is often essential to success in a course. The policy on class attendance is within the discretion of the individual faculty member and shall be announced by the faculty member at the first class meeting of the semester.

Initial Class Meeting

It is especially important that students attend the first meeting of a class. Students absent from the first meeting and who fail to notify the instructor or departmental office no later than 24 hours after the class meeting may be denied admission to the class. Instructors may deny admission to absentees to admit persons on particular course, or withdraws, certain administrations

Instructor-Initiated Drops

A student who registers for a class and whose name appears on the first-day-of-class list should attend all class meetings in the first week. If the student is absent without notifying the instructor or departmental office within 24 hours after any meeting missed during that week, the student may then be dropped administratively from the class by the instructor; however, ultimately it is the student's responsibility to ensure that he/she has been dropped from the class and if not, to follow the appropriate procedures for withdrawing from the class. An instructor may also administratively drop a student who does not meet prerequisites for the course. These administrative withdrawals shall be without penalty and must be filed by the instructor with the registrar no later than the end of the second week of instruction (the specific date is published in the class schedule each semester). The class schedule each semester).

Grading Policies

Grading System

Every student of the university will have all course work evaluated and reported by the faculty using letter grades or administrative symbols.

The university uses a combination of traditional and nontraditional grading options as follows:

Traditional

Option 1. Letter grades, defined as:

A — outstanding performance

B — above average performance

C — average performance

D — below average performance, though passing

F — failure

Nontraditional

Option 2. CR (Credit) for satisfactory (equivalent to C or better in undergraduate courses; B or better in graduate courses) and NC (No Credit) for less than satisfactory work.

When, because of circumstances, a student does not complete a particular course, or withdraws, certain administrative symbols may be assigned by the faculty. Grades and symbols are listed in the chart on the following page together with grade-point values. The chart also illustrates the academic bookkeeping involved for all grades and symbols used.

Selection of Grading Option

Selection of a grading option, with certain exceptions, is the responsibility of the student. Graduate students must use Option 1 for courses that are on study plans leading to master's degrees. Undergraduates must use Option 1 for major, minor and general education requirements.

Exceptions are those courses designated by the faculty to be graded solely on an Option 2 basis.

These courses will be so designated in the class schedule (and shall not be changed by the faculty after publication of the class schedule) for each semester and may be included in major, core or special program requirements.

Students shall inform the registrar up to the end of the third week of classes regarding the selection of grading options in designated courses. If a student does not do so, Option 1 will be used.



The faculty shall grade all students using the traditional A, B, C, D or F grades except in Credit/No Credit courses, and the registrar shall make the necessary changes from A, B, C, D or F, converting A, B, C to Credit, and D and F to No Credit in undergraduate courses and A, B to Credit, and C, D and F to No Credit in graduate courses. In those courses offered only on a Credit/No Credit basis, the instructor shall assign grades of CR or NC or appropriate administrative symbols.

Nontraditional Grade Option

A nontraditional grading option is available to undergraduate students, nonobjective graduate students and to classified graduate students for courses not included in the approved study plan. Any student attempting a course using the nontraditional grading option must meet the prerequisites for that course. Each student shall be permitted to select courses in subjects outside of the major, minor and general education requirements for enrollment on a Credit/No Credit basis (grading Option 2). The phrase "major requirements" shall be taken to include core plus concentration (or option) requirements in departments using such terms, and professional course requirements in teacher education curricula. A student in any one term may take one course under Option 2. In addition, he or she may enroll in a required course offered only under Option 2; however, a maximum of 36 units of Credit/No Credit courses, including those transferred from other institutions, may be counted toward the baccalaureate.

Under Option 2 the term "Credit" signifies that the student's academic performance was such that he or she was awarded full credit in undergraduate courses with a quality level of achievement equivalent to a C grade or better. In all graduate level and professional education courses Credit signifies academic performance equivalent to B or A grades. No Credit signifies that the student attempted the course but that the performance did not warrant credit toward the objective.

Ordinarily, a student shall be limited to one nonmajor course per term using this option, exclusive of courses offered only on a Credit/No Credit basis.

When an undergraduate student changes his or her major field of study to one where he or she has completed courses with CR grades, such lower division courses shall be included in major requirements. Upper division courses may be included at the option of the department upon petition by the student.

ADVISORY CAUTION: Undergraduate students who plan to pursue graduate or professional studies later are advised to be selective in opting for courses on a credit/no credit basis. As a general rule (advisory only), course work that is preparatory or prerequisite to advanced specialized study should be completed and evaluated on a letter grade basis and not Credit/No Credit.

Administrative Symbols

Incomplete Authorized (I)

The symbol I signifies that a portion of required course work has not been completed and evaluated in the prescribed time period owing to unforeseen but fully justified reasons and that there is still a possibility of earning credit. It is the responsibility of the student to bring pertinent information to the instructor and to reach agreement on the means by which the remaining course requirements will be satisfied. A final grade is assigned when the work agreed upon has been completed and evaluated.

Grade or Symbol	Units	Units	Grade Point	Full
Option 1	Attempted	Earned	Value	Credit
A	Yes	Yes	4	Yes
В	elgm Yes TE	Yes	10111093	Yes
C 1.3.197.8.12.101.17	Yes	Yes	agmed 2 kg	Yes
D	Yes		er aben e	
F	Yes		0	
Option 2			M) lews	
CR	as doming the	Yes	None	Yes
NC	o Blifforte Arbol In on of Con	No	None	No
Administrative Symbols I (Incomplete				
authorized) U (Unauthorized	three weeks to and the di comission to	No.		
incomplete)	Yes	No	0	No
W (Withdrawal)	No	No	None	No
WF (Withdrawal)	Yes	No	0	No
AU (Audit)	No	No	None	No
SP (Satisfactory	onestudentsa	tauntani lo	set dr00se	Leion to th
progress) RD (Report	No mar	No No	None	No
delayed)	No	No	None	No
TOTALS	Used	Counted	Used	W 10 400
10 An An Anni 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	In	in	Toward	
the course after the	GPA	Objective	GPA	pertormar symbol W

^{*}Credit/No Credit course units are not included in GPA computations.
†If not completed within one semester the I will be changed to an F (or NC).

An Incomplete must be made up during the semester immediately following the end of the term in which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Failure to complete the assigned work will result in an Incomplete being changed to an F or an NC.

A grade of Incomplete may be given only when, in the opinion of the instructor, a student cannot complete a course during the semester of enrollment for reasons beyond the student's control. Such reasons are assumed to include: illness of the student or of members of the student's immediate family, extraordinary financial problems, loss of outside position and other exigencies. In assigning a grade of I, the instructor shall file with the department for future reference and student access a Statement of Requirements for Completion of Course Work. The requirements shall not include retaking the course. The instructor will also designate a time limit (up to one semester) for completing requirements. Upon request, a copy of the document will be furnished to the student. The student should review this statement at the earliest opportunity.

The statement of requirements will include an indication of the quality of the student's work to date. This not only provides an interim evaluation for the student but assists the department chair in assigning a final grade in those instances where the instructor is no longer available.

When the specific requirements are completed, the instructor will report a change of grade. The responsibility for changing the incomplete grade rests with the instructor.

Withdrawal (W, WF)

Students may withdraw from class during the first two weeks of instruction. After that time students should complete all courses in which they are enrolled.

The university authorizes withdrawal after the first two weeks of instruction and prior to the last three weeks of instruction only with the approval of the instructor and the department chair or school dean. All requests for permission to withdraw and all approvals shall be made in writing on the Change of Program form and shall be filed at the Office of Admissions and Records by students or their proxies.

Prior to the 20th day of instruction, students may withdraw from classes without record of enrollment. Students withdrawing from class after the 20th day of instruction shall receive grading symbols of Wor WF. The symbol W signifies that the student dropped the course after the 20th day of instruction and that the quality of performance at the time of withdrawal was C or better. The symbol WF signifies that the student dropped the course after the 20th day of instruction and that the quality of performance at the time of withdrawal was below average. W's are not counted in grade-point average calculations; WF's are counted in the same way as F grades. When signing the Change of Program form, the instructor shall indicate to the student whether W or WF will be given.

Students may not withdraw during the final three weeks of instruction except in cases, appropriately documented, such as accident or serious illness, where the assignment of an Incomplete is not practicable. Ordinarily, withdrawals of this nature will involve withdrawal from all classes except that Credit or Incomplete Authorized (I) may be assigned for courses in which

students have completed sufficient work to permit an evaluation to be made. Petitions for permission to withdraw from all classes under these circumstances, with authorizations as described above, shall be submitted with Change of Program forms by the students (or their proxies) to the registrar.

Unauthorized Incomplete (U)

The symbol U indicates that an enrolled student did not withdraw from the course but failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities or both were insufficient to make normal evaluation of academic performance possible. For purposes of grade-point average computations this symbol is equivalent to an F.

Students may petition for retroactive withdrawal from individual courses or from an entire semester, provided they can document both the serious and compelling reasons or circumstances that required the withdrawal and the date of such withdrawal. Such a petition must be filed within 30 days after the first class day of the following semester.

ADVISORY NOTE: Students who unofficially withdraw and who are receiving financial aid or benefits which are dependent on completion of specified course units are advised that they may have such benefits suspended and may be subject to repayment of allowances received after date of unofficial withdrawal.

Audit (AU)

The symbol AU is used by the registrar in those instances where a student has enrolled in a course either for information or other purposes not related to the student's formal academic objective. Enrollment as an auditor is subject to the permission of the instructor, provided that enrollment in any course as an auditor shall be permitted only after students otherwise eligible to enroll in the course on a credit basis have had an opportunity to do so. Auditors are subject to the same fees as credit students and regular class attendance is expected. Once enrolled as an auditor, a student may not change to credit status unless such a change is requested prior to the last day to add classes. A student who is enrolled for credit may not change to audit after the third week of instruction. An auditor is not permitted to take examinations in the course; therefore, there is no basis for evaluation nor a formal grade report.

Satisfactory Progress (SP) OFTUAD YROZIVGA

The SP symbol is used in connection with thesis, project or similar courses that extend beyond one academic term. It indicates that work is in progress, and has been evaluated and found to be satisfactory to date, but that assignment of a final grade must await completion of additional course work. Cumulative enrollment in units attempted may not exceed the total number

applicable to the student's educational objective. Work is to be completed within a stipulated period which may not exceed one year except for graduate degree theses or projects for which the time may be longer, but may not exceed the overall limit for completion of all master's degree requirements. Any extension of time must receive prior authorization by the dean of the school (or the dean's designee) in which the course is offered.

Report Delayed (RD)

The RD symbol is used where a delay in the reporting of a final grade is due to circumstances beyond the control of the student. The symbol is assigned by the registrar and will be replaced as soon as possible. An RD shall not be included in calculation of a grade-point average.

Student Records

Grade Reports to Students

A report of the final grades assigned in classes is sent to each student at the end of each semester. Many students also leave self-addressed post cards for instructors of specific courses to send them earlier reports.

Class Grade-Point Averages

Beginning with the fall semester 1978, information is included on student grade reports and permanent academic records that is intended to depict the level of achievement of students in relation to other students in a particular class. The information is displayed in parentheses before each course grade. The first set of figures indicates the number of students officially completing the course and the second set is the class grade-point average. In making the computations, marks of W,I, CR, NC, and SP are excluded. This same information is displayed for summer session classes, but not for extension or intersession classes sponsored by the Office of Extended Education. Examinations

Final examinations, if required by the instructor, will be given at times scheduled by the university. Once established, the final examination schedule may not be changed unless approved by the dean of the school. No makeup final examination will be given except for reason of illness or other verified emergencies.

Credit by Examination

Students may be granted credit toward the baccalaureate and to meet curriculum requirements in certain designated courses by the satisfactory completion of challenge examinations in the courses. The examinations are to be comprehensive and administered by the sponsoring departments. Well in advance of the semester in which a challenge examination is to be administered, the student, using the appropriate university form, will secure written approval of his or her major advisor and the chair of the department in which the course is offered. In general, prior work or academic experience will be required.

Courses to be offered as challenge examinations will be determined by the academic departments. Matriculated students may either enroll in these courses during registration or add them during the first three weeks of the semester. The examination must be administered not later than the end of the third week of instruction.

Upon successful completion of the examination, the instructor will report the grade of CR. Students who fail the challenge examination may elect to continue the course for credit or may officially withdraw from the course through the normal class withdrawal procedure. The challenge examination for any course may be administered only once.

A maximum of 30 credits can be earned by challenge examination, including those earned by advanced placement. Credit by examination may not be used to fulfill the minimum residence requirements. Shows Aside set seemed appropriate sortionide sortionide

Grade-Point Averages

The numerical grade-point values in the grading system chart are intended to give an exact determination of a student's scholastic standing. To compute the grade-point average for course work at Fullerton, the grade-point value of each grade, with the exception noted in the "Repetition of Courses" section, is multiplied first by the unit value of each course to obtain a total of all grade points earned. The total is then divided by the total units attempted in all courses in which grades of A, B, C, D, F, U and WF were received. The resulting figure is the grade-point average.

Repetition of Courses

Undergraduate students may repeat courses at California State University, Fullerton for which D or failing grades were earned either at Cal State Fullerton or at other institutions; in repeating such courses, the traditional grading system shall be used. In computing the grade-point average of a student who repeats courses in which he or she received D or failing grades, only the most recently earned grades and grade points shall be used for the first 16 units repeated. Nevertheless, the original grade on the academic record shall not be changed or eradicated.

In exercising this option, an undergraduate student must repeat the course at Cal State Fullerton and may request application of this policy when a course has been repeated. This should be accomplished using the appropriate form, immediately following the term in which the course has been completed, so that the student's gradepoint average can be revised. In the absence of student requests, courses successfully repeated are routinely credited by the Office of Admissions and Records during disqualification cycles and degree requirement reviews at the time of graduation.

This policy may also be applied to courses in which U or WF grades were assigned, as a means of eliminating such marks from grade-point average computations.

In the case of any repetition beyond the 16-unit limit or in courses for which a C or better grade was awarded, both grades are considered in computing grade-point averages. Successful repetition of a course originally passed carries no additional unit credit toward a degree or credential except for certain courses such as independent study, practicum, or other courses specified in this catalog as "may be repeated for credit."

Students transferring from other colleges where courses were taken and repeated may be eligible for consideration under this policy. In general, the policy of the college where the course was repeated shall be followed; however, units for the courses taken and repeated at the transfer institution are included in the 16unit limitation.

Subject to the following restrictions, if a graduate or postbaccalaureate student (excluding students with a second bachelor's degree objective) repeats courses for which a grade of U (unauthorized incomplete) was received, only the most recently earned grade(s) and grade points shall be used in computing the grade point average; however, the original U grade(s) will remain on the permanent record. This policy may be applied only to grades earned during the first semester in which U grades are received. Repeated courses must be taken at Cal State Fullerton using the traditional grading system. Students who have successfully repeated U-graded courses must notify the Admissions and Records office using the appropriate form if they wish adjustment to their grade point averages.

Grade Changes

The university recognizes the long-standing prerogatives of faculty to set standards of performance and to apply them to individual students. The university will seek to correct injustices to students but at the same time believes that the instructor's judgment at the time the original grade is assigned is better than a later reconsideration of an individual case. Equity to all students is of fundamental concern. The following policies apply to changes of grades except for changes of Incomplete Authorized and Unauthorized Incomplete symbols.

- 1. In general, all course grades are final when filed by the instructor in the end-of-term course grade report. Each student is notified by mail of the grades earned during the term, and these grades become a part of the official record.
- 2. A change of grade may occur only in cases of clerical error, administrative error, or where the instructor reevaluates the original course assignments of a student and discovers an error in the original evaluation. A clerical error is an error made by the instructor or an assistant in calculating or recording the grade. A change of grade shall not occur as a consequence of the acceptance of additional work or reexamination beyond the specified course requirements.

- 3. A request for a change of grade shall be initiated by the student affected and shall be directed to the instructor within 60 calendar days of the first day of classes of the regular semester following the award of the original grade. If the instructor determines that there is a valid basis for the change, a Change of Grade form shall be used to notify the Office of Admissions and Records. These forms are available in department offices and are not to be handled by students. If the instructor determines that there is not a valid basis for the change, and denies the student's request, the instructor's decision is final. The student may file a petition with the Academic Appeals Board on the basis of capricious or prejudicial treatment by the instructor.
- 4. The Change of Grade form completed and signed by the instructor, noting the basis for the change, shall not be accepted by the registrar unless approved separately by the department chair and school dean.
- 5. If a request for change of grade is initiated after 60 calendar days into the following semester, it will be approved only in extraordinary circumstances. An explanation of such circumstances must accompany the request and must be approved separately by the instructor, department chair, and the dean before acceptance by the registrar. Class Grade Point Avera

Academic Dishonesty

Academic dishonesty includes such things as cheating, inventing false information or citations, plagiarism, and helping someone else commit an act of academic dishonesty. It usually involves an attempt by a student to show possession of a level of knowledge or skill which he or she does not possess.

Cheating is defined as the act of obtaining or attempting to obtain credit for work by the use of any dishonest, deceptive, fraudulent or unauthorized means. Examples of cheating include, but are not limited to: using notes or aids or the help of other students on tests and examinations in ways other than those expressly permitted by the instructor, plagiarism as defined below, tampering with the grading procedures, and collaborating with others on any assignment where such collaboration is expressly forbidden by an instructor.

Plagiarism is defined as the act of taking the specific substance of another and offering it as one's own without giving credit to the source. When sources are used, acknowledgment of the original author or source must be made following standard scholarly Students may be granted credit toward the baccalante .asiarq

The initial responsibility for detecting and dealing with academic dishonesty lies with the instructor concerned. An instructor who believes that an act of academic dishonesty has occurred is obligated to discuss the matter with the student involved. The instructor should possess reasonable evidence, such as documents or personal observation. However, if circumstances prevent consultation with the student, the instructor may take whatever action, subject to student appeal, the instructor deems appropriate.

An instructor who is convinced by the evidence that a student is guilty of academic dishonesty shall:

- 1. Assign an appropriate academic penalty. This may range from an oral reprimand to an F in the course. To the extent that the faculty member considers the academic dishonesty to manifest the student's lack of scholarship and to reflect on the student's academic performance and academic integrity in a course, the student's grade should be adversely affected. Suggested guidelines for appropriate actions are an oral reprimand in cases where there is reasonable doubt that the student knew that his or her action constituted academic dishonesty; an F on the particular paper, project or examination where the act of dishonesty was unpremeditated, or where there were significant mitigating circumstances, or an F in the course where the dishonesty was premeditated or planned.
- 2. Report to the student involved, to the department chair, and to the vice president for student affairs the alleged incident of academic dishonesty, including relevant documentation, and make recommendations for action that he or she deems appropriate.

The vice president for student affairs shall maintain an academic dishonesty file of all cases of academic dishonesty with the appropriate documentation. Students shall be informed when their names are inserted into the file and provided with copies of any appeals or disciplinary procedures in which they may become involved. The vice president for student affairs or his or her designees may initiate disciplinary proceedings under Title 5, California Code of Regulations, Section 41301, and Chancellor's Executive Order 148; when two or more incidents involving the same student occur, he or she shall do so. Opportunities for appeal regarding sanctions resulting from disciplinary proceedings are provided by Executive Order 148.

A student may appeal any action taken on a charge of academic dishonesty under the University Policy Statement 300.030, "Academic Appeals." If the Academic Appeals Board decides that a student is innocent of academic dishonesty, then no entry shall be made in the academic dishonesty file.

If the Academic Appeals Board decides either that a student is innocent of academic dishonesty, or that a faculty member has acted arbitrarily or capriciously towards a student, it shall instruct the faculty member to meet with his or her department chair and, if appropriate, the dean of the school for the purpose of reassessing the student's performance. If the faculty member refuses to do so, or if the Board's recommendation does not specify a particular grade as the one to be assigned, the matter shall be referred to an ad hoc committee, to be established by the department, which shall have ultimate authority to act in the case.

Academic Renewal

Under certain circumstances, the university may disregard up to two semesters or three quarters of previous undergraduate course work taken at any college or university from all considerations associated with requirements for the baccalaureate. These circumstances are:

- 1. that the student has requested the action formally and has presented evidence that work completed in the terms under consideration is substandard and not representative of present scholastic ability and level of performance; and
- 2. that the level of performance represented by the terms under consideration was due to extenuating circumstances; and
- 3. that there is every evidence that the student would find it necessary to complete additional terms to qualify for the baccalaureate if the request were not approved.

Final determination that one or more terms shall be disregarded in the determination of eligibility for graduation shall be based upon a careful review of evidence by the Review Committee for Academic Renewal and shall be made only when:

- 1. five years have elapsed since the most recent work to be disregarded was completed; and
- 2. the student has completed at Fullerton, since the most recent work to be disregarded was completed, 15 semester units with at least a 3.0 grade-point average, or 30 semester units with at least a 2.5 GPA, or 45 semester units with at least a 2.0 GPA. Work completed at another institution cannot be used to satisfy this requirement. With certain exceptions, undergraduate students and position

When such action is taken, the student's permanent academic record shall be annotated so that it is readily evident to all users of the record that no work taken during the disregarded terms, even if satisfactory, may apply toward baccalaureate requirements. All work must remain legible on the record ensuring a true and complete academic history.

This policy is not intended to merely allow students a means by which they may improve their overall grade-point averages.

Transcripts

Official transcripts of courses taken at the university are issued only with the written permission of the student concerned. Partial transcripts are not issued. A fee of \$4 for each transcript must be received before the transcript can be released.

Normally, transcripts are available within three working days, except at the end of the semester when the student should allow about 10 days after the last day of the semester.

Transcripts from other institutions, which have been presented for admission or evaluation, become a part of the student's permanent academic file and are not returned or copied for distribution. Students desiring transcripts covering work attempted elsewhere should request them from the institutions concerned.

Continuous Residency Regulations

Good Standing

Good standing indicates that a student is eligible to continue and is free from financial obligation to the university. A student under academic disqualification, disciplinary suspension or disciplinary expulsion is not eligible to receive a statement of good standing on transcripts issued by the university or on other documents, and videon of series to complete additional terms to qualify for the ments.

Choice of Requirements

A student remaining in continuous attendance in regular sessions and continuing in the same curriculum at any campus of the California community colleges or in any combination of California community colleges and campuses of The California State University may, for purposes of meeting graduation requirements, elect to meet the graduation requirements of such campuses from which he or she will graduate in effect either at the time of entering the curriculum or at the time of graduation therefrom, except that substitutions for discontinued courses may be authorized or required by the proper university authorities.

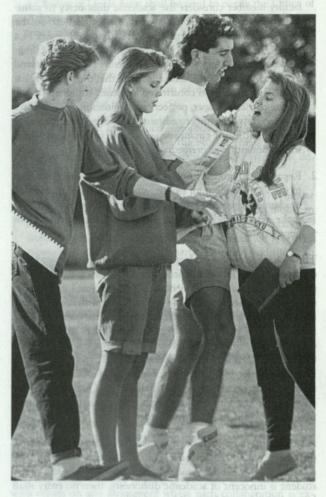
Stop-Out Policy

With certain exceptions, undergraduate students and postbaccalaureate unclassified students may be absent for one semester and maintain their continuing student status. This includes election of curriculum requirements for graduation and eligibility to register for the next semester. The exceptions are as follows:

Disqualified Students — Students who are disqualified at the end of a semester and have not been reinstated will not receive registration materials; they must apply for readmission, and if admitted, may be subject to new curriculum requirements.

Foreign-Visa Students - Students with foreign visas are required to maintain continuous enrollment. The stop-out policy is not applicable.

Students absent for more than one semester must apply for readmission should they wish to return to Fullerton. In some cases, however, election of catalog requirements will not be jeopardized for certain students. Students should consult an evaluator in the Office of Admissions & Records.



Leave of Absence

A leave of absence may be granted based on certain documented extenuating circumstances and normally is granted for not more than one year.

Such an approved leave of absence authorizes the student to return without reapplying to the university and continue under the catalog requirements that applied to the enrollment prior to the absence.

Undergraduate and postbaccalaureate unclassified graduate students on approved leaves of one year (two academic semesters) or less are eligible to register for the semester immediately following the end of the leave and will be mailed registration materials automatically.

The leave of absence policy for conditionally classified and classified graduate students and credential students is defined in the "Graduate Regulations" section of this catalog.

Withdrawal from the University

A student who wishes to withdraw from the university during a semester must complete a Change of Program form and obtain the required approvals. See the section on refund of fees for possible refunds. No student may withdraw after the date shown on the university calendar as the last day of instruction. Complete withdrawal from the university is accomplished by following the procedures for dropping classes.

Retention, Probation and Disqualification

For purposes of determining a student's ability to remain in the university both quality of performance and progress towards the educational objective will be considered.

Academic Probation

An undergraduate student shall be placed on academic probation if in any semester the cumulative grade-point average or the grade-point average at Fullerton falls below 2.0 (grade of C on a four-point scale). The student shall be advised of probation status promptly and, except in unusual instances, before the start of the next consecutive enrollment period.

An undergraduate student shall be removed from academic probation and restored to clear standing upon achieving a cumulative grade-point average of 2.0 in all academic work attempted, in all such work attempted at Fullerton, and is making satisfactory progress towards his or her educational objective.

A postbaccalaureate student (credential, unclassified or undeclared status but not second baccalaureate degree students) shall be subject to academic probation if after completing 12 or more units his or her postbaccalaureate cumulative grade-point average for units attempted at California State University, Fullerton falls below a 2.50 average. The GPA will determine whether a student is subject to probation only after the student has completed 12 semester units.

A graduate student enrolled in a graduate degree program in either conditionally classified or classified standing shall be subject to academic probation if he or she fails to maintain a cumulative grade-point average of at least 3.0 (grade of B on a four-point scale) in all units attempted.

Academic Disqualification

An undergraduate student on academic probation shall be subject to academic disqualification if:

- 1. as a lower-division student (fewer than 60 semester units of college work completed) he or she falls 15 or more grade points below a 2.0 average on all college units attempted or in all units attempted at this institution; or
- 2. as a junior (60 to 891/2 semester units of college work completed) he or she falls nine or more grade points below a 2.0 average on all college units attempted or in all units attempted at this institution; or and the desired
- 3. as a senior (90 or more semester units of college work completed) he or she falls six or more grade points below a 2.0 average on all college units attempted or in all units attempted at this institution.

A graduate student enrolled in a graduate degree program shall be subject to disqualification if while on probation sufficient grade points are not achieved to remove probationary status. Disqualification may be either from further registration in a particular program or from further enrollment in the university, as determined by appropriate campus authority.

A postbaccalaureate student who is on probation shall be subject to disqualification if he or she fails to earn at least a 2.50 gradepoint average each term after the completion of 12 units at California State University, Fullerton in postbaccalaureate status. Disqualification may be either from further registration as a postbaccalaureate, credential or certificate program student or from enrollment at California State University, Fullerton, as determined by the vice president for academic affairs or designee.

Student Conduct

The university properly assumes that all students are in attendance to secure a sound education and that they will conduct themselves as mature citizens of the campus community. Compliance with all regulations of the university is therefore expected. If, however, on any occasion a student or an organization is alleged to have compromised accepted university standards, appropriate judiciary procedures shall be initiated through the established university process. Every effort will be made to encourage and support the development of self-discipline and control by students and student organizations. The vice president for student affairs, aided by members of the faculty, is responsible to the president of the university for the behavior of students in their relationships to the university. The president in turn is responsible to the chancellor and the trustees of The California State University, who themselves are governed by specific laws of the State of California.

Students have the right to appeal certain disciplinary actions taken by appropriate university authorities. Regulations governing original hearings and appeal rights and procedures have been carefully detailed to provide maximum protection to both the individual charged and the university community.

If the issue cannot be resolved informally, students should consult with the coordinator of academic appeals.

Inappropriate conduct by students or by applicants for admission is subject to discipline as provided in Sections 41301 through 41304 of Title 5, Code of Regulations. These sections follow.

Article 1.1, Title 5, California Code of Regulations

41301. Expulsion, Suspension and Probation of Students. Following procedures consonant with due process established pursuant to Section 41304, any student of a campus may be expelled, suspended, placed on probation or given a lesser sanction for one or more of the following causes which must be campus-related:

- Cheating or plagiarism in connection with an academic program at a campus.
- (b) Forgery, alteration or misuse of campus documents, records, or identification of knowingly furnishing false information to a campus.
- Misrepresentation of oneself or of an organization to be an agent of a campus.
- (d) Obstruction or disruption, on or off campus property, of the campus educational process, administrative process, or other campus function.
- Physical abuse on or off campus property of the person or property of any member of the campus community or of members of his or her family or the threat of such physical
- (f) Theft of, or non-accidental damage to, campus property, or property in the possession of, or owned by, a member of the campus community.
- Unauthorized entry into, unauthorized use of, or misuse of campus property battleook battleoognos aved or bogolle

- On campus property, the sale or knowing possession of dangerous drugs, restricted dangerous drugs, or narcotics as those terms are used in California statutes, except when lawfully prescribed pursuant to medical or dental care, or when lawfully permitted for the purpose of research, instruction or analysis.
- Knowing possession or use of explosives, dangerous chemicals or deadly weapons on campus property or at a campus function without prior authorization of the campus president.
- Engaging in lewd, indecent, or obscene behavior on campus property or at a campus function.
- (k) Abusive behavior directed toward, or hazing of, a member of the campus community.
- (1) Violation of any order of a campus president, notice of which had been given prior to such violation and during the academic term in which the violation occurs, either by publication in the campus newspaper, or by posting on an official bulletin board designated for this purpose, and which order is not inconsistent with any of the other provisions of this Section.
- (m) Soliciting or assisting another to do any act which would subject a student to expulsion, suspension or probation pursuant to this Section.
- (n) For purposes of this Article, the following terms are defined:
 - (1) The term "member of the campus community" is defined as meaning California State University trustees, academic, non-academic and administrative personnel, students, and other persons while such other persons are on campus property or at a campus function.
 - (2) The term "campus property" includes:
 - (A) Real or personal property in the possession of, or under the control of, the Board of Trustees of The California State University, and
- (B) All campus feeding, retail, or residence facilities whether operated by a campus or by a campus add to the advantage auxiliary organization. It is now box of ground
- (3) The term "deadly weapons" includes any instrument or weapon of the kind commonly known as a blackjack, sling shot, billy, sandclub, sandbag, metal knuckles, any dirk, dagger, switchblade knife, pistol, revolver, or any other firearm, any knife having a blade longer than five inches, any razor with an unguarded blade, and any metal pipe or bar used or intended to be used as a club. one deimelers andent (credential, unc. dub.)
 - (4) The term "behavior" includes conduct and expression.

- (5) The term "hazing" means any method of initiation into a student organization or any pastime or amusement engaged in with regard to such an organization which causes, or is likely to cause, bodily danger, or physical or emotional harm, to any member of the campus community; but the term "hazing" does not include customary athletic events or other similar contests or competitions.
- This Section is not adopted pursuant to Education Code Section 89031.
- (p) Notwithstanding any amendment or repeal pursuant to the resolution by which any provision of this Article is amended, all acts and omissions occurring prior to that effective date shall be subject to the provisions of this Article as in effect immediately prior to such effective date.

41302. Disposition of Fees: Campus Emergency; Interim Suspension. The President of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or designated representative, enter any campus of the California State University other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

41303. Conduct by Applicants for Admission. Notwithstanding any provision in this Chapter 1 to the contrary, admission or readmission may be qualified or denied to any person who, while not enrolled as a student, commits acts which, were he enrolled as a student, would be the basis for disciplinary proceedings pursuant to Sections 41301 or 41302. Admission or readmission may be qualified or denied to any person who, while a student, commits acts which are subject to disciplinary action pursuant to Section 41301 or Section 41302. Qualified admission or denial of admission in such cases shall be determined under procedures adopted pursuant to Section 41304.

41304. Student Disciplinary Procedures for The California State University. The Chancellor shall prescribe, and may from time to time revise, a code of student disciplinary procedures for The California State University. Subject to other applicable law, this code shall provide for determinations of fact and sanctions to be applied for conduct which is a ground of discipline under Sections 41301 or 41302, and for qualified admission or denial of admission under Section 41303; the authority of the campus president in such matters; conduct-related determinations on financial aid eligibility and termination; alternative kinds of proceedings, including proceedings conducted by a hearing officer; time limitations; notice; conduct of hearings, including provisions governing evidence, a record, and review; and such other related matters as may be appropriate. The chancellor shall report to the Board his actions taken under this section.

Debts Owed to the University

Should a student or former student fail to pay a debt owed to the university, the university may "withhold permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above from any person owing a debt" until the debt is paid (see Title 5, California Code of Regulations, Sections 42380 and 42381). For example, the institution may withhold permission to receive official transcripts of grades for any person owing a debt. If a student believes that he or she does not owe all or part of an unpaid obligation, the student should consult the business office. The business office, or another office to which the student may be referred, will review the pertinent information, including information the student may wish to present, and will advise the student of its conclusions with respect to the debt.

Student Rights

Right of Petition

Students may petition for review of certain university academic regulations when unusual circumstances exist. It should be noted, however, that academic regulations when they are contained in Title 5, California Code of Regulations, are not subject to petition.

Petition forms are available in the Office of Admissions and Records. The university petitions committee will take action on the petition based on recommendations provided by appropriate officers and the student will be notified of the decision. Results of the action will be placed in the student's folder in the Office of Admissions and Records.

The petitions committee members shall consist of the associate dean of each school, or designee, a professional staff member appointed by the director of admissions and records, the coordinator of undergraduate studies, one faculty member of the University General Education Committee, and the assistant registrar, who will serve as the secretary.

Right of Noncompliance

Certain university activities either within or outside of the classroom may involve varying degrees of risk to the participants. It is university policy that the instructor directing such activities fully divulge to all potential participants the specific nature of such risks and obtain from them their expressed or implied consent prior to undertaking activities.

The student who at any time comes to believe that the risks, whether physical or psychological, are excessive has the responsibility to withdraw from participation at the time and to inquire of the instructor if there are alternative means of fulfilling the requirements without penalty. If there is none, the student may petition for withdrawal from the course without penalty or appeal for an appropriate modification of the activity. The appeal may be made either to the chair of the department concerned, or to the chair of the Committee on Activities Involving Human Subjects, or both. The state of bowle and the

Right of Academic Appeal

The right of due process, appeal and peer judgment is established by the Student Bill of Rights and Responsibilities for students who feel they have been treated capriciously or with prejudice by faculty or administrators. Students should make every effort to resolve the issue informally by consulting the individual concerned, and if necessary the department chair and dean of the

Students who still believe the problem has not been resolved should consult with the coordinator of academic appeals. Upon the student's request, the coordinator will convene the Academic Appeals Board to hear the student's complaint. Students must initiate the appeals process by contacting the faculty member and/or the department chair within one academic month after they could reasonably be expected to be aware of the action in question.

Copies of the governing documents are available in the Academic Appeals Office.

Privacy Rights of Students

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) and California Education Code Section 67100 et seq., set out requirements designed to protect the privacy of students concerning their records maintained by the campus. Specifically, the statute and regulations govern access to student records maintained by the university, and the release of such records. In brief, the law provides that the university must provide students access to official records related to them and an opportunity for a hearing to challenge such records on the grounds that they are inaccurate, misleading or otherwise inappropriate. The right to a hearing under the law does not include any right to challenge the appropriateness of a grade as determined by the instructor. The law generally requires that written consent of the student be received before releasing personally identifiable data about the student from records to other than a specified list of exceptions. The institution has adopted a set of policies and procedures concerning implementation of the statutes and the regulations on the campus. Copies of these policies and procedures may be obtained from the vice president for student affairs. Among the types of information included in the campus statement of policies and procedures are: (1) the types of student records and the information contained therein; (2) the official responsible for the maintenance of each type of record; (3) the location of access lists which indicate persons requesting or receiving information from the record; (4) policies for reviewing and expunging records; (5) the access rights of students; (6) the procedures for challenging the content of student records; (7) the cost which will be charged for reproducing copies of records; and (8) the right of the student to file a complaint with the Department of Education. An office and review board have been established by the Department to investigate and adjudicate violations and complaints. The office designated for this purpose is: The Family Educational Rights and Privacy Act Office (FERPA), U.S. Department of Health, Education and Welfare, 330 C Street, Room 4511, Washington, D.C. 20202.

The campus is authorized under the Act to release "directory information" concerning students. "Directory information" includes the student's name, address, telephone listing, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, degrees and awards received. and the most recent previous educational agency or institution attended by the student. The above designated information is subject to release by the university at any time unless it has received prior written objection from the student specifying information that the student requests not be released. Written objections should be sent to the vice president for student affairs.

The campus is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These persons are those who have responsibilities in connection with the university's academic, administrative or service functions and who have reason for using student records connected with university or other related academic responsibilities. Disclosure may also be made to other persons or organizations under certain conditions (e.g. as part of accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; to other institutions to which the student is transferring).

Use of Social Security Number

Applicants are required to include their Social Security account number in designated places on applications for admission pursuant to the authority contained in Title 5, California Code of Regulations, Section 41201. The Social Security account number is used as a means of identifying records pertaining to the student as well as identifying the student for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the institution.

Madrations-Regulations-

Graduate Applications

All applicants for any type of postbaccalaureate or graduate standing (e.g., master's degree applicants, those seeking credentials, and those interested in taking courses for personal or professional growth) must file a complete application within the appropriate filing period. Second baccalaureate degree candidates should apply as postbaccalaureate students with an undergraduate degree objective. A complete application for postbaccalaureate or graduate standing includes all of the forms and fees described in the application booklet, including the supplementary graduate admissions application. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to complete and submit an application and the nonrefundable application fee. In the event that an applicant wishes to be assured of initial consideration by more than one campus, it is necessary to submit a separate application (including fee) to each.

Applications may be obtained from the Office of Admissions and Records or the Graduate Studies Office of any California State University campus. Instructions for completing the application forms are included in the material supplied. Since some programs require the completion of an additional form as part of the application process, students should inquire concerning this possibility at the office of the academic unit offering the particular program.

Transcripts

When an applicant for graduate standing, with a master's degree objective, a credential-only objective, or a master's degree and credential objective, receives the application acknowledgement, requests should be submitted to *all* of the institutions of higher learning in which previously registered, requesting that *two official* transcripts from each institution be sent to the university Admissions and Records office.

One copy of each transcript will be forwarded to the academic unit offering the degree or credential program specified by the student as the objective; and the other official transcript will be retained for use by both the Admissions and Records Office and the Graduate Studies Office.

Students who receive their baccalaureate degree at Cal State Fullerton and continuing graduate students who change their declared objective subsequent to admission must obtain whatever additional transcripts are needed to provide two complete sets of transcripts, but do not need to request Cal State Fullerton transcripts.



Postbaccalaureate applicants with no degree or credential objective must submit a transcript from the college or university where the baccalaureate was earned. Further, one transcript from other institutions attended is required as necessary so that Cal State Fullerton has a complete record of the last 60 semester units attempted prior to enrollment at Fullerton.

All transcripts must be received directly from the issuing institutions and become official records of the university; such transcripts therefore cannot be returned or reissued. Transcripts which include course work from other than the issuing institution are not sufficient evidence of course work taken elsewhere. Foreign language transcripts must be accompanied by certified English translations.

Tests

The Graduate Record Examination (GRE), or another test, may be required for conditionally classified admission, or subsequently for the granting of classified standing. Test requirements vary from department to department. Students should refer to master's degree requirements outlined by each department in the "Curricula" section of this catalog. Applications and information on test dates for nationally administered tests (e.g. GRE, GMAT) are available in the Testing Center.

TOEFL Requirement

All graduate and postbaccalaureate applicants, regardless of citizenship, whose preparatory education was principally in a language other than English, must demonstrate competence in English. Those who do not possess a bachelor's degree from a postsecondary institution where English is the principal language of instruction must receive a minimum score of 550 on the Test of English as a Foreign Language (TOEFL). Students interested in the MBA program must present a minimum score of 570 on the TOEFL.

International Students

See procedures outlined in the international student portion of the "Admissions Policies" section of this catalog.

Second Master's Degree or Concentration

Students may wish to pursue a second master's degree or concentration. Approval for admission to graduate standing in the second degree program or concentration may be given only after the first degree has been awarded. Units used for the first degree or concentration may not be applied to the second. Students who have completed a master's degree at Cal State Fullerton in one concentration and wish to complete another will not be awarded a second degree.

Nonaccredited Schools

An applicant who is a graduate of a nonaccredited school must apply for admission as an undergraduate to complete requirements for a bachelor's degree from this institution. However, once admitted, a student in this category who gives evidence of unusual promise and superior background may petition for graduate standing as conditionally classified. If the petition is granted, the student may then proceed in the graduate program. If the petition is denied, the student may be requested to complete a specified number of undergraduate units in order to establish equivalency to the bachelor's degree or to complete requirements for a bachelor's degree at CSUF. For further information, contact the Graduate Studies Office.

Graduate Admissions

Following completion of application procedures and subsequent review of the student's eligibility by the Admissions Office and appropriate academic unit, the student will be notified by the Admissions Office concerning admission. Only a written notice from the Admissions Office is valid proof of admission. Academic advisement prior to admission is tentative and cannot be construed as granting official admission to a program or establishing requirements for the degree.

Students may apply for a degree objective, a credential or certificate objective, or no program objective. Four admission categories are defined in terms of these academic objectives.

Postbaccalaureate Standing: Unclassified

To qualify for admission with no degree objective, students must (1) hold an acceptable bachelor's degree from a regionally accredited institution or have equivalent preparation as determined by the appropriate campus authority; (2) have a grade point average of at least 2.5 (A = 4.0) in the last 60 semester (90 quarter) units; and (3) have been in good standing at the last college attended. In unusual circumstances, exceptions may be made to these criteria.

Admission with postbaccalaureate-unclassified standing does not constitute admission to graduate degree or credential programs. If a student wishes to change academic objective after admission, an application for change of objective must be filed in the Admissions Office.

Postbaccalaureate Standing: Classified

To qualify for admission with a credential or certificate objective, students must (1) meet the requirements for postbaccalaureateunclassified standing and (2) satisfy any additional professional, personal, scholastic, and other standards, including qualifying examinations. Refer to specific credential requirements under the departmental section of this catalog.

Graduate Standing: Conditionally Classified

To qualify for admission with a graduate degree objective, students must (1) meet the admission requirements for postbaccalaureate-unclassified standing and (2) meet any additional requirements of the particular program including a favorable recommendation from the academic unit.

An applicant who has deficiencies in prerequisite preparation or in grade-point average may be considered for admission in conditionally classified standing with the approval and recommendation of the appropriate campus authority. A student admitted in conditionally classified standing may subsequently be granted classified standing in an authorized graduate degree curriculum if professional, personal, scholastic, or other standards including qualifying examinations are met.

Graduate Standing: Classified

Determination of the student's prerequisites and assignment of courses, units, and grade points required to remove deficiencies is made by the academic unit. For specific information on prerequisites to classified standing, consult departmental program requirements.

Classified standing is normally granted when all prerequisites have been satisfactorily completed, the official study plan formulated, and the recommendation made by the appropriate graduate adviser and committee to the Dean of Graduate Studies who gives final approval. An eligible student may be granted classified standing prior to the first registration or during the first semester of registration.

No more than nine units of postgraduate work taken at this institution prior to classified standing will be applied to a master's degree study plan. Any acceptable transfer work is excluded from the nine units permitted.

It is the student's responsibility to initiate the request for classified standing in the appropriate academic unit by making an appointment with the departmental graduate adviser. The student will be sent a copy of the approved study plan by the Graduate Studies Office. Copies will be filed in the academic unit, university records, and the Graduate Studies Office. A student is not officially classified until an approved study plan is on file in the Graduate Studies Office.

Requirements for the otherwise it is necessary to reapply and meet any changed additional requirements approved in the internal DTLW Master's Degree



To be granted the master's degree, a student must have been classified, advanced to candidacy, and completed a satisfactory pattern of study in an approved field. Requirements which apply to all programs follow. For specific requirements of particular programs, see the program descriptions in the departmental section of this catalog.

Each student's program for a master's degree (including eligibility, classified standing, candidacy, and award of the degree) must be approved by the graduate program adviser, the graduate committee, and the Dean of Graduate Studies.

University Writing Requirement

Students working toward a master's degree are required to demonstrate writing ability commensurate with the baccalaureate degree. This requirement should be met within the first nine units of graduate work by successfully completing one of the following:

- 1. An upper-division writing requirement at any CSU campus.
- 2. An upper-division course at another university equivalent to a course which meets the Cal State Fullerton requirement. Such equivalence must be certified by the department or program responsible for the student's academic work.
- 3. Cal State Fullerton Examination in Writing Proficiency.
- 4. An upper-division or graduate-level course that is certified as meeting the writing requirement and is approved by the department or program responsible for the student's academic work. The grade received must be a C or better.

Any student who has not met the requirement within the first nine units of graduate work shall be required to enroll in a certified course at the earliest opportunity.

Departments and programs may, at their discretion and with approval of the Graduate Education Committee, establish additional writing requirements for their graduate students. For further information, students should consult their program adviser or the Graduate Studies Office.

Study Plan

General requirements for the master's degree study plan include:

- 1. A minimum of 30 approved semester units, or more, as determined by the particular program.
- 2. A minimum of 21 semester units in residence (transfer and Cal State Fullerton extension or intersession course work are not considered to be in residence).
- 3. A unit of course work taken at a college or university on the quarter system will be considered as equivalent to two-thirds of a unit when such course work is considered acceptable as transfer work. See additional requirements for transfer credit under "Graduate Enrollment Policies."
- 4. Upper-division and graduate-level courses only. The inclusion of 300-level course work is generally discouraged. The graduate program adviser must submit to the Dean of Graduate Studies a written justification for any 300-level course work proposed for inclusion on the study plan unless it is an existing program requirement.
- 5. Not less than one-half of the total units in graduate (500level) courses.
- 6. Not more than six semester units for a thesis, if a thesis is course which meets the Oal State Fullerton beriuper until
 - 7. A maximum of six units of independent study (exceptions subject to approval by the appropriate school dean).
 - 8. No courses taken to satisfy prerequisite requirements included in the minimum of 30 units.
- 9. None of the following: correspondence courses, credit by examination, or similar.
- 10. No courses with nontraditional grades (e.g., CR, S, P).
- 11. A minimum grade-point average of 3.0 (B) in all courses attempted to satisfy requirements for the degree.
- 12. All courses completed within five years of the date of award of the degree or satisfactorily validated.
- 13. All courses taken after the baccalaureate (or postbaccalaureate credit granted) and not credited toward another degree.
- 14. A final evaluation, which may be a thesis, a project, a comprehensive examination, or any combination of these.

The approved study plan is valid as long as the student maintains continuous enrollment in regular semesters at the university; otherwise it is necessary to reapply and meet any changed or additional requirements approved in the interim.

Election of Curriculum

A student remaining in continuous attendance in regular semesters and continuing in the same curriculum may elect to meet the degree requirements in effect either at the time of entering the curriculum or at the time of completion of degree requirements, except that substitution for discontinued courses may be approved by the graduate program adviser.

Advisers and Committees

University policy provides that each student's program for the master's degree shall be under the guidance of an adviser and committee. In some areas a graduate program adviser has been designated to give overall supervision for the graduate program. In others, the graduate program adviser also serves as the individual student's adviser. The student's adviser is usually a member of the committee. The committee is responsible for all major recommendations to the Dean of Graduate Studies regarding the student's achievement of classified standing, advancement to candidacy, and completion of the master's degree.

It is the responsibility of the student to arrange appointments for advisement and other information in the office of the academic unit offering the degree program. As a minimum, the student should obtain advisement (1) either prior to or during the first semester of attendance, (2) when requesting classified standing, and (3) when applying for a graduation check prior to the final semester.

It is advisable for the student to maintain a personal file of transcripts and other evidences of grades and achievements, and to carry these whenever seeking advisement.

Advancement to Candidacy

A student who has been granted classified standing is normally advanced to candidacy after a request is filed for graduation by the student and an affirmative recommendation made by the graduate program adviser. A minimum grade-point average of 3.0 (B) for all study plan course work is required; other scholastic, professional and personal standards, the passing of examinations, and other qualifications, may be prescribed. Only those students who continue to demonstrate a satisfactory level of scholastic competence and fitness, as determined by the appropriate authorities, shall be eligible to continue in graduate programs.

Completion of Requirements and Award of Degree

The degree is awarded upon the satisfactory completion of all state and university requirements, the specific requirements for the particular program, the recommendation of the appropriate graduate adviser and committee (advancement to candidacy), and the approval of the faculty and the Dean of Graduate Studies. It is highly recommended that all work for the degree, except final course examinations, be submitted by the last day of classes, in order to assure granting of the degree by the end of the semester or session.

If a thesis is required, it must be deposited in the Titan Bookstore in accordance with the instruction shown under "Theses and Projects," no later than the last day of final examinations for the semester or session in which the degree is to be awarded.

It is the student's responsibility to file an application for a graduation check and pay the graduation and diploma fee *prior* to the beginning of the final semester. Forms are available at the Admissions and Records information counter, the Graduate Studies Office, and the Registrar's Office graduation unit.

The application for graduation initiates review of degree requirements and formal approval by the faculty as well as serving as a diploma order. The last date to file the application is listed in the academic calendar of the class schedule for each regular semester. Candidates for August graduation must file their requests prior to registration for the spring semester.

Students who fail to complete requirements as planned must update the application for a graduation check and do so by the appropriate deadline. An additional fee may be required.

Since Cal State Fullerton is on the semester basis, master's degree programs are ordinarily completed in January and June. A student who wishes to complete requirements during the summer must obtain written approval prior to summer term on a form available in the Graduate Studies Office. The approved form must be returned to Graduate Studies during the spring semester.

The effective date of graduation will be the last day of the specific term in which requirements are completed.

Commencement ceremonies are held only at the end of the spring semester. Students completing requirements at the end of the fall and spring semesters and during the following summer may participate in those ceremonies. Information concerning commencement activities is sent to students by the Registrar during the final semester. Arrangements for cap, gown and hood rental are made in the Titan Bookstore.

Time Limit for Completion

All requirements for the master's degree, including all course work on the student's study plan, normally should be completed within five years. This time limit commences with the semester of the earliest course used on the student's study plan and consists of a total of ten (10) consecutive semesters. When individual circumstances warrant, this time limit may be extended for up to two years (four additional consecutive semesters).

A student may request an extension of the five year time limit by filing a petition with the Graduate Studies Office. The petition must contain a full explanation of the circumstances which prevented completion of the degree requirements within the normal five-year limit and must be approved (signed) by the graduate program adviser, the chair of the appropriate graduate committee and the Dean of Graduate Studies. Approvals for extension must be obtained prior to the expiration of the five-year limit.

Outdated course work (course work older than the student's approved time limit; i.e., normally five years but with approval may be a maximum of seven years) must be repeated. A maximum of nine (9) units of course work may be exempt from this policy if it can be validated. Copies of the "Petition for Validating Outdated Coursework" may be obtained from the Graduate Studies Office. Validation is allowed at the discretion of the graduate program adviser, the academic unit offering the subject course and the Dean of Graduate Studies. Validation must be accomplished by passing a written comprehensive test of the materials covered by the course being validated or by some equivalent method with prior approval of both the graduate program adviser and the Dean of Graduate Studies. Any outdated course work which cannot be validated either because of a denial of the petition or because it is in excess of the nine units allowed for validation, must be repeated or updated through the use of additional study plan course work. If course work is repeated or additional course work is required to update, the units and grades will be added to the study

NOTE: Outdated transfer course work cannot be validated.

Changes in Study Plan

If a classified graduate student wishes to make a change in the approved study plan, a request should be made to the appropriate graduate program adviser. Requests must be made prior to registration for any course work to be substituted or added. No course may be removed from the study plan after a student has taken it. Forms which may be used to file a request are available in the Graduate Studies Office.

Changes in study plan may also be warranted by outdated coursework or grade-point average (see "Time Limit for Completion" and "Grade-point Average Standards").

Graduate Enrollment Policies

Consult previous sections of this catalog and the class schedule for other information and regulations relating to registration and enrollment.

Residence Requirement

A student is considered to be in residence when registered during regular semesters at this university. Of the minimum of 30 semester units of approved course work required for the master's degree, not less than 21 shall be completed in residence at this institution. Approved units earned in summer sessions may be substituted for regular semester unit requirements on a unit for unit basis. Extension or intersession course work may not be used to fulfill the minimum residence requirement.

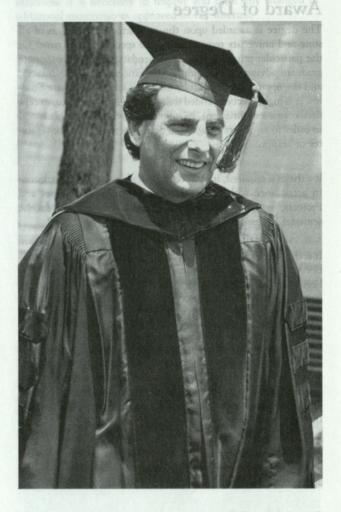
Continuous Enrollment

A graduate student with a graduate degree objective should maintain continuous enrollment during regular semesters (summer sessions and extension excluded) until award of the degree. This policy is designed to eliminate the need for readmission to the university, provide opportunity for continuous use of facilities, including the Library, and assure the development of an integrated program, adequately supervised, and effectively terminated within the time limitations allowed by regulations.

Unless granted an approved leave of absence, a graduate student who fails to register each semester has discontinued enrollment in the graduate degree program. If the student wishes to resume studies, it will be necessary to reapply for admission to the university and to the degree program and meet any changed or additional requirements approved in the interim.

Students who may have completed all course work, but who may not have satisfactorily completed a comprehensive examination or other requirement, are expected to maintain continuous enrollment until award of the degree.

A graduate student who finds it impossible to attend during a certain semester and is not eligible for a leave of absence, must register in Graduate Studies 700. Registration in this course is restricted to conditionally classified or classified graduate students. It carries no unit credit and does not require class attendance. Registration in this course in each semester when no other course work is taken will be necessary until award of the may be removed from the study plan after a student has re-serged



must obtain written approval prior to summer term on a form

Similarly, Credential Studies 701 is available for students with a credential-only objective who find it impossible to enroll in course work and are not eligible for a leave of absence.

Leave of Absence

Graduate degree or credential students may request a leave of absence for up to one year. Conditionally classified or classified graduate students qualify for a leave if they are in good academic standing and have completed at least six credit hours' work toward the degree in residence at Cal State Fullerton. Students with a credential-only objective qualify if they have completed at least one semester of course work in good academic standing. Forms to request a leave of absence are available at the Admissions and Records information counter or in the Graduate Studies Office.

Any one of the following circumstances may be grounds for requesting a leave of absence:

- 1. Illness or disability (permanent or temporary) or similar personal exigencies including pregnancy which make it impossible or inadvisable for a student to register for classes.
- 2. Activities which enhance a student's professional career objectives.
- 3. Active duty in the armed forces of the United States.
- 4. Other reasons at the discretion of the Dean of Graduate Stud-

After review by the Graduate Studies Office, the academic unit (where applicable), and the Registrar's Office, a response is mailed to the student.

A first-time leave of absence of one semester only will normally be granted upon request for students who qualify and will not require an application for readmission to the university. Registration materials for the semester following the leave will be sent to the student.

Students requesting a subsequent leave or a leave longer than one semester are required to provide appropriate documentation (e.g., doctor's recommendation, verification of employment). Such requests must also be endorsed by the program adviser. A leave granted for more than one semester does not reserve a place for the student at this university. An application for admission must be filed in order to be readmitted and permitted to enroll when the leave terminates.

A leave granted to a degree objective student preserves the election of curriculum rights regarding catalog requirements. However, leaves of absence do not change the time limit for completion of the degree. For credential students, a leave granted by the University does not exempt them from new requirements im-

posed by the State regardless of the catalog year and also does not extend time limitations imposed by the State for completing specific teaching credential requirements.

Study Load

Graduate students must carry a study load of 12 units of course work a semester or nine units of which six are in 500-level courses for full-time enrollment certification by the university. A normal full-time load in summer session is one and one-third units per week of instruction. The maximum study load for students working toward a master's degree is 12 units per semester; in exceptional cases, however, a student may take more with the approval of the graduate program adviser.

Enrollment in Extended Education Programs (1968) slow seems to their slowless to be supplying

In addition to its regular academic programs, the university offers a number of courses through its extended education program. These include the summer session, the extension program and adjunct enrollment (a program permitting those who are not formally enrolled to take regular university courses).

The applicability of credit earned through courses taken in any of the programs sponsored by the Office of Extended Education is subject to approval by the graduate program adviser and Dean of Graduate Studies. The second of the second o

The use of postgraduate course work or seems Summer Sessions sources of the general regards

Appropriate courses taken during the summer session may be applied to a graduate degree program, providing the courses are approved in advance.

Transfer Credit Policy of policy of

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No more than nine units of credit earned in the university extension program (including intersession course work) may be applied to a graduate degree. Consultation with a graduate adviser before taking an extension course is strongly recommended.

It should be noted that enrollment in summer session or extension courses does not constitute admission to the university or enrollment as a continuing student in the university. Any student desiring a master's degree must be admitted to a regular semester (fall or spring).

Enrollment in 500-Level Courses by Seniors

Undergraduate students may enroll in graduate level courses (500 level) if they:

- a. have reached senior status (i.e., completed a minimum of 90 semester units)
- b. have the academic preparation and prerequisites required for entry into the course
- c. gain the consent of the instructor.

Students wishing to use 500-level course work taken during their undergraduate degree toward a master's degree should read the following section on Postgraduate Credit.

Postgraduate Credit

A graduate student may petition for a maximum of nine units of postgraduate credit for course work (either 400 or 500 level) taken during the undergraduate degree if:

- a. the course work was not used to meet any of the university's requirements for the baccalaureate degree (including major, minor or concentration)
- b. the course work was taken during the final two semesters prior to the student's graduation
- c. approved by the registrar of the appropriate university.

Petition forms are available at the Admissions and Records information counter. If approved, appropriate notations will be entered on the student's permanent record.

The use of postgraduate course work on a student's graduate study plan is governed by the general regulations for all graduate degrees and must be approved by the program adviser, the appropriate graduate committee and the Dean of Graduate Studies.

Transfer Credit Policy

Graduate students may be able to use a limited amount of transfer course work in meeting the requirements for a master's degree.

The use of transfer course work on a student's study plan is subject to the following provisions:

- 1. The course work being transferred must:
 - a. have been taken at an accredited college or university.
 - b. be acceptable for credit toward a graduate degree at the institution where the course work was taken.
 - c. have been completed with a grade of B or better.
 - d. not have been used in meeting the requirements for another earned degree (either graduate or undergraduate).
 - e. have been completed within the student's five-year time period which is required for completion of the requirements for the master's degree at CSUF.
- 2. An absolute minimum of 21 semester units toward any master's degree at CSUF must be in residence units. For master's degrees requiring more than 42 semester units, a minimum of half of the units used on the student's study plan must be in residence units. Residence units include regular courses and extension courses offered as special sessions.
- 3. Use of transfer work on a student's study plan is subject to all other policies concerning study plan course work; e.g., fifty percent must be graduate level work, no correspondence course work, no credit by examination, no courses with nontraditional grades.
- 4. In all cases, the use of transfer course work on a student's study plan is subject to the acceptance and approval of the academic unit's graduate adviser and the Dean of Graduate Studies. Course work taken at another institution after admission to CSUF as a graduate student is rarely accepted for credit toward a master's degree and can only be accepted if the student has received prior approval of both the graduate adviser and the Dean of Graduate Studies.
- 5. Total approved transfer units and grade points will be entered on the CSUF transcript at graduation.

(e.g., doctor's recommendation, verification of employment).

Graduate Academic Standards

Grade-Point Average Standards

Prerequisites

The grade-point average required for prerequisites prior to classified standing varies according to the particular program. See requirements in departmental sections of this catalog.

Study Plan

Grade-point averages are calculated by dividing grade points earned by units attempted. The 30 or more semester units of approved study plan course work, including transfer work, required for the degree must be completed with a 3.0 (B) minimum grade-point average. If a student approaches the completion of the degree requirements with less than a 3.0 average, a request may be made for a change in the study plan to add no more than six units of course work in order to achieve at least a 3.0. Requests for course work to be added to the study plan must be approved by the graduate program adviser and Dean of Graduate Studies prior to registration (see "Changes in Study Plan"). If the grade-point average at any time falls below such a level that it cannot be raised to a 3.0 within the prescribed limits of course work, this has the effect of withdrawing the student from the master's degree program.

If permission is given to repeat a course, and the course is successfully repeated, both grades are considered in computing gradepoint averages. However, successful repetition of a course originally passed carries no additional unit credit toward a degree.

University

A graduate degree student is expected to earn a 3.0 average in all postbaccalaureate course work taken at this university. Exception to this rule may be granted only if courses for which grades are not to be computed in the GPA have never been part of the student's study plan for the degree, and if it is evident that they are inapplicable and inappropriate to the degree program.

Academic Probation and Disqualification

A graduate student enrolled in a graduate degree program in either conditionally classified or classified graduate standing is subject to academic probation if a cumulative grade-point average of at least 3.0 (grade of B on a four-point scale) is not maintained.

If sufficient grade points to remove probationary status are not earned while on probation, the student is subject to disqualification. Disqualification will prevent further registration in a particular program or further enrollment in the university, as determined by appropriate campus authority.

A graduate student may also be placed on probation or may be disqualified for unsatisfactory scholastic progress regardless of cumulative grade-point average. Such actions may be due to repeated withdrawal, failure to progress toward an educational objective, and non-compliance with an academic requirement.

A postbaccalaureate student (credential, unclassified, or undeclared status) shall be subject to academic probation if after completing 12 or more units, the cumulative grade-point average falls below a 2.5 average. A postbaccalaureate student on probation shall be subject to disqualification if at least a 2.50 gradepoint average is not earned each term after the completion of 12 units in postbaccalaureate status. Disqualification may be either from further registration toward a postbaccalaureate credential or certificate program, or from further enrollment in the university as determined by the appropriate campus authority.

Declassification

Graduate students in classified graduate standing shall be declassified upon the recommendation of the appropriate academic unit, with a change to postbaccalaureate standing, unclassified, when one or more of the following conditions exist:

- 1. The student's request for declassification has been recommended for approval by the graduate committee.
- 2. The student fails to maintain the grade-point average required in the master's degree program.
- 3. The student has failed to demonstrate a satisfactory level of scholastic competence and fitness.
- 4. The student fails to complete the degree within the prescribed time limit.

A recommendation for declassification is sent to the Graduate Studies Office by the graduate program adviser for the particular degree, on for at least three original title pages to be signed by the

Theses and Projects

Definition

A thesis is defined as the written product of a systematic study of a significant problem. It identifies the problem, states the major assumptions, explains the significance of the undertaking, sets forth the sources for and methods of gathering information, analyzes the data, and offers a conclusion or recommendation. The finished product evidences originality, critical and independent thinking, appropriate organization and format, and thorough documentation. Normally, an oral defense of the thesis is required.

A project is a significant undertaking appropriate to the fine and applied arts or to professional fields. It also evidences originality and independent thinking, appropriate form and organization, and a rationale. It is described and summarized in a written abstract that includes the project's significance, objectives, methodology and a conclusion or recommendation. An oral defense of the project may be required.

Annual Thesis Award

An award of \$300 along with an engraved plaque will be given each year to the student whose thesis represents the highest standard of scholarly accomplishment as determined by a panel of judges chosen from emeriti professors. Interested students should contact the Graduate Studies Office or their program adviser for further information on eligibility and deadlines. Finalists from each school may also be recommended for Honorable Mention by the judges; these will receive a certificate of Honorable Mention and a cash award.

General Regulations

Of the minimum of 30 semester units of approved course work required for the master's degree, no more than six are allowed for a thesis.

When a thesis is required, the Library is to be provided with the approved original copy, or a fully acceptable duplicated copy, in the approved binding, and an acceptable microfilm of it. An abstract accompanies the thesis and will normally be published in the University Microfilms International journal, Masters Abstracts. Copies are thereby made available for order by interested scholars. Studies Office by the graduate program adviser for the part



Academic Probation and

When a project is required, it will be filed with the academic unit offering the degree program. Some record of the project, or the project itself, is preserved in the academic unit and, when appropriate, in the Library. When the appropriate authority recommends, a project or its written record may be treated as a thesis.

Although a minimum of three faculty members supervise and approve the thesis, it is possible for a qualified person who is not a regular university faculty member to serve as a visiting examiner and join in the approval of the written record. This person serves as the fourth member of the committee.

Title to theses (and projects when treated as theses, as above) passes to the university upon their acceptance by the evaluating faculty.

Variations from procedures and regulations should be referred to the Office of Graduate Studies for approval.

Format Guidelines and Style Manuals

All-university format guidelines are included in a thesis manual which has been developed to assist the student in preparation of a thesis or a project which is to be treated as a thesis. Copies are available in the Office of Graduate Studies. It is the student's responsibility to make certain that the requirements are met. The student is strongly advised to become familiar with the instructions in the manual. Theses from the library or departmental offices should not be used as examples of correct format.

The academic unit, through the student's adviser and/or committee, is responsible for the academic content and English usage in the thesis and for the student's correct use of forms of documentation and bibliography. In addition to the university format guidelines, each academic unit may select a supplementary style manual to be followed in matters of documentation and bibliography. Students should consult their academic program adviser or thesis committee chair concerning the style manual used.

If the supplementary style manual presents regulations which conflict with the all-university format guidelines published in the thesis manual, the university regulations take precedence.

Some graduate programs require style manuals or guides designed for journal articles. Although these are helpful for abbreviations, tables, figures and footnoting, as well as other purposes, students should be aware of the difference between a thesis and an article and make appropriate adaptations, approved by the graduate program adviser.

If the academic unit does not recommend a specific style manual, the student should refer to A Manual for Writers of Term Papers, Theses, and Dissertations (Fifth Edition) by Kate L. Turabian.

Thesis Typists

The student makes all necessary arrangements for the typing of the thesis. A list of thesis typists is available in the Office of Graduate Studies. The university Career Development Center also maintains a listing of students and others who have indicated their availability for typing assignments. An experienced typist is strongly advised, although the university does not endorse or recommend individual typists.

Deadlines Telephone Company Company

Adequate time should be allowed for typing, reading and approval by the adviser, the committee members, and the university thesis reader. (LIMA) International Authority of the state of the thesis may not be withdrawn as the state of the state of

It is recommended that the academic area sponsoring the degree program require that the final version of the thesis be submitted for approval at least six weeks prior to the last day of classes of the appropriate semester. The deadline for submission to the university thesis reader is two weeks prior to the last day of classes. For summer completion, the student should check with the academic unit and the Office of Graduate Studies for appropriate deadlines. The Office of Graduate Studies must receive notification from the Titan Bookstore by the last day of final examinations for the appropriate semester or session that the thesis has been deposited there and the fees paid. Ample time should be allowed for any special arrangements, such as duplication of the thesis by the Titan Bookstore or elsewhere, prior to the deadline.

Final Procedures

1. Approval Signatures: When the final draft is completed, the student obtains signatures on the approval page of all of the members of the committee. The title/approval page may be photocopied onto the correct paper stock; however, the signatures must be original. Photocopied signatures are not acceptable for binding or microfilming. The signatures must be in black ink. If there is a disagreement within the committee concerning the acceptability of the thesis, the approving signatures of a majority of the committee will be sufficient. Nonavailability of one member of the committee is not an adequate reason for acceptance of signatures by less than the full committee. No changes or additions will be allowed after the final signatures have been obtained. The student should arrange for at least three original title pages to be signed by the committee members. (Two originals are submitted to the bookstore with the thesis or project; one may be the student's personal copy or be used for the departmental copy.)

- 2. University Thesis Reader: The thesis is ready for review by the university thesis reader after the faculty have signed off and the thesis has been typed in its final form. One unbound copy of the thesis including the original approval page is taken to the Office of Graduate Studies for review by the thesis reader for conformity to all-university format guidelines. The copy submitted to the Graduate Studies Office may be a photocopy provided it is copied on the correct paper stock. The student, graduate program adviser, and thesis committee chair will be notified of any revisions or corrections which need to be made. Final approval on format is given by the Office of Graduate Studies on the "Thesis Approval Form."
- 3. Binding and Microfilming: The student takes the approved copy of the thesis, two signed title and approval pages, and the signed Thesis Approval Form to the Titan Bookstore and pays the appropriate fees. The bookstore arranges for the binding of the thesis by a local bindery and other services by University Microfilms International (UMI). Once submitted and receipted, the thesis may not be withdrawn by the student from the Titan Bookstore. The Titan Bookstore sends the approved original or duplicated copy (including the original signed approval page) to University Microfilms International for filming and publication of the abstract, and upon its return sends it to the bindery.

An agreement is normally completed for UMI to publish the abstract in Masters Abstracts, prepare a negative microfilm, and sell microfilm or xerographic copies to interested scholars. The university will accept alternative methods of microfilming, duplication of printed copies and binding, subject to the specifications on file in the Graduate Studies Office. Arrangements for copyrighting are also possible, if desired, through UMI.

- 4. Notification for Award of the Degree: The grade for the thesis is reported in the usual manner to the Office of the Registrar by the appropriate faculty. The Titan Bookstore notifies the Office of Graduate Studies that the approved thesis has been deposited, the fees paid, and the agreement for microfilming and publication of the abstract completed by the student.
- 5. Depositing of Thesis in Library: When the thesis is returned by the bindery, the bound copy is deposited for circulation in the library. One set of the slides or separately mounted illustrative material is housed with the bound copy. The second set is placed in the university archives with the microfilm copy.

Final Procedures
1. Approved Segments: WHEN SHEET SHEE

Steps in the Master's Degree

There may be additional steps for individual students in particular programs; for these, consult the program description and the academic unit (school, department or program) offering the degree program.

- · Action initiated by student (as indicated below)
- 1. Admission to Graduate Standing: Conditionally Classified
 - · Apply for admission
 - Declare objective(s), using precise codes on the application form
 - Receive application acknowledgement from the Admissions Office
 - Request two sets of official transcripts of all previous college-level course work attempted to be sent to Admissions
 Office
 - Take tests, if required by program, and order test scores sent to Cal State Fullerton, designating appropriate academic unit on the test registration form
 - · Consult appropriate academic unit for advisement
 - Provide appropriate academic unit with any other supporting statements or materials, as required

Recommendation for admission made by academic unit to Admissions Office

Receive notification of admission from Admissions Office

- 2. Graduate Standing: Classified
 - Complete any course prerequisites and/or remove deficiencies
 - Apply for classified standing in the academic area offering the particular program prior to completion of nine units of study plan course work
 - Consult appropriate academic unit for advisement, including development of official study plan
 - Provide appropriate academic unit with any other supporting statements or materials, as shown in program descriptions in this catalog
 - Take tests if required by program, and order test scores sent to Cal State Fullerton, designating appropriate academic unit on the test registration form

Recommendation made by academic unit to the Dean of Graduate Studies

Receive notification of classified standing being granted from Graduate Studies when the study plan is sent, showing approval by the Dean of Graduate Studies.

- If not received within a reasonable length of time, call the academic unit sponsoring the degree or Graduate Studies.
- 3. Completion of Requirements
 - Apply for a graduation check and advancement to candidacy prior to the beginning of the final semester and no later than the deadline initiating university review and formal approval by faculty. The form is available at the Admissions and Records information desk, the Graduation Unit and the Graduate Studies Office. A graduation and diploma fee must be paid when filing request with the university cashier.
 - · Consult appropriate academic unit for advisement
 - · Complete written and/or oral examination, if required
 - · Complete thesis or project, if applicable
 - · Obtain approval of committee
 - Obtain approval of university thesis reader (thesis only)
 - Deposit approved copy of thesis and make arrangements for binding, microfilming and publication of the abstract in the Titan Bookstore by the applicable deadline

Final, approved study plan, with recommendation, sent by appropriate academic unit to Dean of Graduate Studies

Preliminary approval, pending adequate grades, and completion of any other requirements, granted by Dean of Graduate Studies.

 Complete all general and specific requirements, other than final course examinations, by the last day of classes, in order to assure granting of the degree by the end of the semester

Final verification of completion of requirements sent by the Graduate Studies Office to the registrar

Receive notification of award of degree from registrar approximately six weeks after the end of the semester

4. Commencement

 Make appropriate arrangements for cap, gown and hood rental in Titan Bookstore

Commencement information sent by the Registrar's Office

Order usy Them Record The that because the second to the An assessment a completed for Util to publish the 1997 Repart a present a migrative microfilm, and 1997 Report to interested scholars. The of the 1998 archiving the contents appropriate to make the large of the contents of microfilming, display

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Lequest two sets of official transcripts of all previous college-level course work attempted to be sent to Admissions.

Office

Take tests, if required by program, and order test scores sent to Cal State Fullerron, designating appropriate academic unit on the fest registration form

· Consult appropriate academic unit for advisement

Provide appropriate academic unit with any other supporting starements or materials, as required

Recommendation for admission made by academic unit to Admissions Office

Receive notification of admission from Admissions Office

Oraduate Standing: Classified

Complete any course prerequisites and/or remove deficientales

Apply for classified standing in the academic area offering the particular program prior to completion of nine units of study plan course work

Consult appropriate academic unit for advisement, including development of official study plan

Provide appropriate academic unit with any other supporting statements or materials, as shown in program descriptions in this caralog

Take tests if required by program, and order test scores sent
to Cal State Fullerton, designating appropriate academic
unit on the test registration form

Recommendation made by academic unit to the Dean of Graduate Studies

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· Complete thesis or project, it applicable

* Obtain approval of committee

Obtain approval of university chesis reader (chesis only)

Deposit approved copy of thesis and make arrangements
for building, microfilming and publication of the abstract
in the Titan Bookstore by the applicable deadline

Emal, approved study plan, with recommendation, sent by appropriate academic unit to Dean of Craduate Studies

Preliminary approval, pending adequate grades, and completion of any other requirements, granted by Dean of Graduate Studies.

Complete all general and specific requirements, other than final course examinations, by the last day of classes, in order to assure granting of the degree by the end of the semester

Final verification of completion of requirements sent by the Graduate Studies Office to the registrar

Receive notification of award of degree from registrar a

4. Commencemen

 Make appropriate arrangements for cap, gown and hood rental in Titan Bookstore

Commencement information sent by the Registrar's Office

Academica Programs

Degree Programs

California State University, Fullerton offers the following baccalaureate degree programs which are described on the pages listed:

The following master's degree programs are offered:

	M.S. Accountancy	21
B.A. American Studies 38.	M.A. American Studies	38
B.A. Anthropology 388		
B.A. Art	M.A. Art	17
B.F.A. Art 17	M.F.A. Art	17
B.S. Biochemistry 510	M.A. Biology	50
B.A. Biological Science 50		
B.A. Business Administration 22	M.S. Chemistry	
B.A. Chemistry 510	M.A. Communications	
B.S. Chemistry 510		27
B.S. Child Development 32	M.A. Comparative Literature	
B.A. Communications 26		
B.A. Communicative Disorders		
B.A. Comparative Literature		
B.S. Computer Science		LL
B.A. Criminal Justice	The state of the s	
B.A. Economics		
B.S. Engineering		
B.A. English		
B.A. Ethnic Studies (with option in Afro-Ethnic studies	M.S. Engineering	
and Chicano studies)		
B.A. French 412		
B.A. Geography		
B.S. Geology	M.A. Geography	43
B.A. German		
B.A. History 440		44
B.S. Human Services	M.A. Interdisciplinary Studies	16
B.A. International Business with a concentration in	M.A. Linguistics	45
French, German, Japanese, Portuguese or Spanish 240	M.S. Management Science	
B.A. Latin American Studies 448	M.A. Mathematics	53
B.A. Liberal Studies	M.A. Music	
B.A. Linguistics 453		
B.A. Mathematics 530	M.S. Physical Education	
B.A. Music		46
B.M. Music		47
B.S. Nursing 361		
B.A. Philosophy		
B.S. Physical Education 344		
B.S. Physics 538		
B.A. Political Science (including concentration in public	M.A. Sociology	
administration)	M.A. Spanish (including emphasis in bilingual	49.
B.A. Psychology	studies)	
B.A. Religious Studies		
B.A. Russian & East European Area Studies		21
		214
B.A. Sociology		198
B.A. Spanish		
B.A. Special Major		198
B.A. Speech Communication 271		
B.A. Theatre Arts		

Graduation Requirements for the Bachelor's Degree



Unit Requirements

A. Total Unit Requirements

The minimum number of semester units necessary for a bachelor's degree, exclusive of remedial courses (i.e. course numbered 0-99) is as follows:

1.	For the Bachelor of Arts degree
	For the Bachelor of Fine Arts degree
3.	For the Bachelor of Science degree 124-132
4.	For the Bachelor of Nursing degree
5.	For the Bachelor of Science in Engineering degree
6.	For the Bachelor of Music degree
	A. Light Park Indianal and the confidence and a light park and a confidence and a confidenc

B. Upper-Division Requirement

A minimum of 40 semester units of upper division coursework is required for any CSUF bachelor's degree. Courses offering upper division credit are those numbered at the 300- and 400-levels.

All units from upper division courses are applicable to the upper division units requirement, including units from courses in the major, the minor, and general education.

C. Special Unit Totals

The maximum number of special semester units accepted for a bachelor's degree is as follows:

1. Transferable units from community or junior colleges 70

2.	Transferable units from a four-year university or college or from a combination of two and four-year institutions 94
3.	From credit by examination
4.	From extension & correspondence courses 24
5.	From credit/no credit courses
6.	From Reading Skills courses numbered at the 100- and 200-levels
7	From Internship courses

8. From Independent Study courses

Residence Requirement

A minimum of thirty (30) semester units must be earned in courses taken at California State University, Fullerton. Twenty-four (24) of these units must be earned in upper division courses. At least twelve (12) upper division semester units in the major must be taken at this institution. Courses taken in extension (except for summer session and intersession courses offered as part of the special sessions program) and units earned through credit by examination may not be used to fulfill these requirements.

Grade Point Average Requirements

Three grade point averages, each 2.0 or higher, are required for graduation:

- A. An average based on all units attempted, including those attempted at other institutions.
- B. An average based on all units attempted at CSUF.
- C. An average based on all units attempted in the major.

Distribution of Requirements

A. General Education

A minimum of 51 semester units are needed to complete CSUF's general education requirements. See the "General Education" section of this catalog.

B. Major

The unit requirements in a major varies substantially from major to major. Some majors require as little as 36 semester units while others require as much as 105 units. Refer to the Department listings for the specific requirements of any particular major.

C. Upper-Division Baccalaureate Writing Requirement

The university requires that every person completing bachelor's degrees under 1980-81 and later catalog requirements, demonstrate writing ability acceptable for graduation. The upper-division writing requirement has two parts; students must satisfy each:

Upper-division course requirement: Each major requires that students pass a specially designated upper-division course or courses of at least three semester units. Examination requirement: The university faculty requires that each student pass the University Examination in Writing Proficiency (EWP), which has been designed to measure writing ability.

Courses. The University Board on Writing Proficiency must certify the course or courses that each major department designates to fulfill the requirement. Departments and programs may specify either a single course of at least three units which involves intensive instruction in writing, or two or more courses (a total of at least six units) in which students are required to write one or more lengthy papers, or several shorter ones, which involve the organization and expression of complex ideas. In these courses students will be given careful and timely evaluations of their writing and suggestions for improvement. An assessment of writing competence will be included in determining the final course grade.

Students must pass these courses with a grade of C or better. A list of courses designated for each major will appear in the class schedule each semester.

Examination. After completing 60 units toward the baccalaureate, students must take the University Examination in Writing Proficiency (EWP). The EWP consists of two parts, a machinescored test of Standard Written English, and a 90-minute essay which is evaluated by faculty readers. Students who fail the examination may retake it until they pass it. A limited number of students who have failed the EWP two or more times may enroll in English 199, Intensive Writing Review. Credit in English 199 will be equivalent to passing the examination. This course will not count toward graduation requirements, nor will it satisfy the upper division writing course requirement described above. Information about registration for the EWP and testing dates is published in the class schedule each semester.

Petitions. In certain cases, students may petition the University Board on Writing Proficiency for exemption from or modification of the requirement.

- Transfer students and candidates for a second baccalaureate may be certified as meeting the requirement after they have submitted to the Board acceptable evidence of having completed the equivalent to CSUF's upper division requirement.
- Students may petition for substitution of an alternative to the EWP when exceptional circumstances, e.g. a clinically identified learning disability, make the examination inappropriate. Petitions must include documentation of the special circumstances and propose specific alternative means of demonstrating writing proficiency.

D. Minors

A minor is not required for the baccalaureate; however, students may elect to complete one or more minors from those available and have that noted on their records. A minor consists of an academic program specified by the academic departments in the catalog. In completing the requirements for a minor, a minimum of twelve (12) units, of which at least six (6) must be upper division, must be distinct and different from the units used to complete the requirements of the major. Any units above this minimum requirement which can be used to satisfy both the requirements for the minor and for the major may be double counted. General education courses, however, may be used to meet minor requirements.

E. Electives

After fulfilling the requirements in general education, and a specific major (and possibly a minor), each student is free to choose the rest of the courses needed to complete the semester units required for

graduation. Different majors vary considerably in both the number of units they require in their own and related fields. They also vary considerably in the amount of latitude or choice they permit in selecting courses to satisfy the major requirement. The general education requirement encourages freedom of choice within the natural sciences, social sciences, arts and humanities, and basic subjects. Students at the university use their electives to broaden their general education, deepen some aspect of their specialties, pursue work in related fields, and satisfy curiosities and enthusiasms for particular subjects or areas of interest.

Advisement on general education and electives is provided by the Academic Advisement Center.

F. Multiple Majors and Second Baccalaureate Degrees

Within the units required for the baccalaureate it is possible for a student to complete the requirements for more than one major within a degree program when the additional major is within the degree of the first major. At least 24 units, including 12 at the upperdivision level, in each bachelor of arts major, or 36 units, including 18 at the upper-division level, in each bachelor of science major, must be applied exclusively to the respective major and may not be used to meet requirements in other majors or in general education. The student shall declare the additional major with the appropriate department not later than the beginning of the student's final year of study. The completion of additional majors will be noted at the time of graduation by appropriate entries on the academic record and in the commencement program.

It is also possible for a student to complete a major in one degree program and an additional major from a different program, provided the minimum units described in the preceding paragraph are applied exclusively to the respective major and are not used in other majors or in general education. In this instance, the student has the option of which degree he or she will receive with the major appropriate to that degree. The completion of the additional major will be noted on the student's academic record. The university does not award two degrees to the individual who completes multiple majors in a four-year degree program.

Second baccalaureate degrees:

First degree completed elsewhere, second at Fullerton. Students seeking a bachelor's degree from Fullerton after having received a baccalaureate from another institution may qualify for graduation with the approval and recommendation of the faculty upon completion of the following:

- (1) General Education requirements: Students holding a baccalaureate degree from an accredited institution will be held to (a) the breadth requirements of Executive Order 338, i.e. 12 units in each of the areas of arts and humanities, social sciences, and math and science, (b) the statutory requirements and (c) the English Writing Proficiency requirements. Students willnot be held to specific CSUF categories or courses.
- (2) all requirements in the major field of study
- (3) residence and scholarship requirements

Two baccalaureates from Fullerton. With the approval and recommendation of the faculty, a student may qualify for a second baccalaureate under the following circumstances:

- (1) a minimum of 30 units beyond the awarding of the first degree have been earned
- (2) a minimum of 24 upper-division units are included among the 30 units mentioned above
- (3) a minimum of 12 units must be offered by the department in which the second degree is being sought
- (4) two or more degrees may not normally be awarded at the same time

Units included in second baccalaureate programs may not apply to graduate degrees or credential programs.

Graduation Requirement Check

A candidate for graduation must file an application for a graduation requirements check before the first day of instruction of the semester prior to the semester in which the student expects to graduate. The graduation and diploma fee is required when the application is filed. Application forms are available at the Admissions and Records information counter and in the graduation unit.

Candidates for the baccalaureate should refer to the semester class schedule for application filing dates. A senior should have completed at least 100 units (including the current work in progress) and a substantial portion of the major requirements before requesting a graduation check. If the candidate does not complete the requirements in the semester indicated, a change of graduation date must be filed in the Office of Admissions and Records.

Faculty Approval and Recommendation

Under provisions of the Academic Senate, the Office of Admissions and Records publishes a list of degree candidates twice a year: in the fall and in the spring (for both spring and summer graduates). After review and approval by the faculty, and upon verification of the completion of requirements, diplomas are issued with the last day of the respective term as the official date of graduation.

Annual commencement exercises are held at the end of the spring semester for those who completed degree requirements mid-year and for those completing degree requirements in the spring semester or summer session. The president of the university, with the authority of the Board of Trustees, confers all degrees, subject to the completion of remaining requirements.

Note: Students completing bachelor degree requirements who wish to continue their studies at the university for postbaccalaureate or graduate degree objectives must apply for admission declaring their new objectives.

General Education

General Education Objectives

The general education-breadth requirements are designed so that, taken with the major-depth program and electives presented by each baccalaureate candidate, they will assure that graduates have made noteworthy progress toward becoming truly educated persons. Particularly, the purpose of these requirements is to provide means whereby graduates:

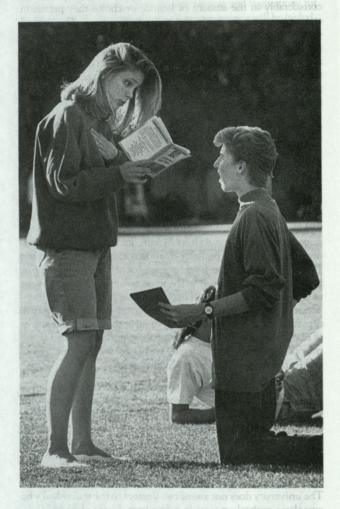
- A. will have achieved the ability to think clearly and logically, to find and critically examine information, to communicate orally and in writing, and to perform quantitative functions;
- B. will have acquired appreciable knowledge about their own bodies and minds, about how human society has developed and how it now functions, about the physical world in which they live, about the other forms of life with which they share that world, and about the cultural endeavors and legacies of their civilization;
- C. will have come to an understanding and appreciation of the principles, methodologies, value systems, and thought processes employed in human inquiries. (Executive Order 338)

General Education Requirements

All students beginning studies fall 1987 or later must complete a minimum of 51 semester units of general education courses selected in accordance with the pattern designated on the following pages. General education courses must be selected from an approved list and taken for a letter grade. Students should refer to the latest university Schedule of Classes for the most up-to-date list of approved classes. A student who has a break in enrollment for more than one semester in any calendar year may be liable for new catalog requirements.

Students must complete at least nine units of upper-division (i.e. 300- or 400-level) general education course work taken after the student has achieved junior standing (i.e. 60 units). At least nine units of general education must be earned in residence at California State University, Fullerton.

A grade of C or better must be earned for each course in Basic Subjects: Oral Communication (I.A.), Written Communication (I.B.), Critical Thinking (I.C.), Reading (optional) (I.D.), and Mathematics (III.A.4.). All general education courses must be taken on a grade option 1 basis (A, B, C, D, F). An option 2 (credit/no credit) course may be used for general education if that is the only grade option for the course. Consult the course description in the departmental sections of this catalog for grade option information on a specific course.



Courses offered by the department of the student's major may not be used to fulfill the unit requirement of categories III or IV with the exception of categories offering choices from only one department. Courses which are cross-listed meet general education category requirements for all majors except those in the home department of the cross-listed course. The "home" department is the one under which the course description appears in the catalog. For example, Anthropology is the "home" department for Anthropology/Religious Studies 305; hence, it may not be used by an Anthropology major to meet general education requirements. Also, no more than nine units from any single department may be used in meeting the requirements of general education. Upper-division courses offered by the department of the student's major may not be used for general education credit.

At least three (3) semester units of Cultural Diversity course work must be taken from among the asterisked courses in Section IV. At least one laboratory course must be taken from among the courses marked with a dagger (†) in Sections III.A.1., III.A.2., or III.A.3. missib not noncognition for distinct one and or little of the standard or in the control of the con

Among the following list of requirements a few courses appear in more than one category. These courses may be used to fulfill the requirements of only one, and not both, of the categories within which they appear. Engrance to the Program

A score of T145 or higher on the English Placement Test (EPT), or completion of English 99 with a grade of C or better, is a prerequisite for enrollment in courses in category I.A.2. Written Communication, for all students except those with an exemption.

A score of 480 or higher on the Entry Level Mathematics (ELM) examination is a prerequisite for enrollment in courses in Category II.A.4. Mathematics for all students except those with an cation Honors Program by submitting a formal letter noitymexe

Certification Policy

Under provisions of Executive Orders 338 and 342, accredited colleges and universities may certify the completion of part of the 48-51 units required in general education. Within the policy of the Board of Trustees, Cal State Fullerton will accept such certification of general education up to a maximum of 39 semester units, but may accept no more in general education than the number of units required in each area and no more than 30 units in areas in which the student has not been certified.

Transfer students who are certified in any category with fewer than the required units will be subject to additional units and will be permitted to take the additional units in upper-division categories.

California Articulation Number

California State University, Fullerton is authorized to crossreference certain courses with California Articulation Number (CAN). This is a system of equating courses between campuses in California. It is used by an increasing number of community colleges and four-year universities and colleges to identify some of the transferable, introductory courses in several academic disciplines.

The system assures students that CAN courses noted in the catalog of one campus will be accepted in lieu of the comparable CAN course on another participating campus. An example is our Anthropology 101 Introduction to Biological Anthropology; CAN ANTH 2 is accepted in lieu of courses similarly marked in other university or college catalogs. Talk MAD

The California Articulation Numbers are listed in parentheses by the course descriptions in the catalog. A listing of courses currently approved for CAN follows:

California Articulation	CANADOUR A to not recitive good links Com
Number	Cal State Fullerton Courses
CAN ANTH 2	Anthro 101 Introduction to Biological Anthropology
CAN ANTH 4	Anthro 102 Introduction to Cultural Anthropology
CAN ANTH 6	Anthro 103 Introduction to TAM MAD Archaeology
CAN ART 2	Art 201A Art and Civilization
CAN ART 4	Art 201B Art and Civilization
CAN ART 8	Art 107A Beginning Drawing and Painting
CAN ART 10	Art 107B Beginning Drawing and Painting
CAN ART 14	Art 103 Two-dimensional Design
CAN BIOL 6	Biology 241 Principles of Botany MAO
CAN BUS 8	Management 246 Business Law
CAN ECON 2	Economics 202 Principles of Macroeconomics
CAN ECON 4	Economics 201 Principles of AH9 MAO
CAN ENGL 2	English 101 Beginning College Writing
CAN ENGL 6	English 105 Introduction to Creative Writing
CAN ENGL 20	English 206 Introduction to Poetry
CAN ENGR 2	EG-ME 102 Graphical Communications
CAN ENGR 4	EG-ME 202 Material Science YES MASS
CAN ENGR 8	EG-CE 201 Statics
CAN GEOG 2	Geological Sci 110 Principles of Physical Geography
CAN GEOG 4	Geological Sci 160 Culture and Environment
CAN GEOL 2	Geological Sci 101+
CAN ENGR 2 CAN ENGR 4 CAN ENGR 8 CAN GEOG 2 CAN GEOG 4	English 206 Introduction to Poetry EG-ME 102 Graphical Communication EG-ME 202 Material Science EG-CE 201 Statics Geological Sci 110 Principles of Physical Geography Geological Sci 160 Culture and Environment

California Articulation	Cultismid Is is used by its moreusuit purp
Number	Cal State Fullerton Courses Geological Sci 101L Physical Geology and Lab
CAN GEOL 4	Geological Sci 201 Earth History
CAN GOVT 2	Poli Sci 100 American Government
CAN HIST 2	History 110A Western Civilization to the 16th Century
CAN HIST 4	History 110B Western Civilization since the 16th Century
CAN HIST 8	History 170A United States to 1877
CAN HIST 10	History 170B United States Since 1877
CAN JOUR 2	Comm 101 Writing for the Mass Media
CAN JOUR 4	Comm 233 Mass Communication in Modern Society
CAN MATH 2	Mathematics 110 Mathematics for Liberal Arts Students
CAN MATH 18	Mathematics 150A Analytic Geometry and Calculus
CAN MATH 20	Mathematics 150B Analytic Geometry and Calculus
CAN MATH 22	Mathematics 250A Intermediate Calculus
CAN PHIL 2	Philosophy 100 Introduction to Philosophy
CAN PHIL 6	Philosophy 210 Logic
CAN PHYS 2	Physics 211A and 211AL Elementary Physics + Lab
CAN PHYS 4	Physics 211B and 211BL Elementary Physics + Lab
CAN PHYS 8	Physics 225A and 225AL Fundamental Physics: Mechanics + Lab
CAN PHYS 10	Physics 225C+mode A MOOR MAD
CAN PHYS 12	Physics 225B+
	Physics 225BL Fundamental Physics: Electricity and Magnetism and Lab
CAN PSY 2	Psychology 101 Introductory Psychology
CAN SOC 2	Sociology 101 Introduction to Sociology
CAN SOC 4	Sociology 102 Social Problems
CAN SPCH 4	Speech Comm 102 Public Speaking
CAN SPCH 6	Speech Comm 235 Essentials of Argumentation and Debate

General Education Honors

The General Education Honors Program offers students many of the educational benefits of a small college in the midst of the rich resources of a large university. The program's small class sizes (twenty students maximum) provide challenging learning experiences, individual attention from professors, and closer interaction with other students.

In honors sections of general education courses, students are encouraged to develop and discuss ideas in an active, imaginative and original way. Professors contribute by making creative use of curricular materials and student assignments. They interact personally and intensively with each student and encourage students to interact with each other. These courses do not simply demand a greater quantity of work. They create a learning environment in which students are encouraged to realize their intellectual potential.

The General Education Honors Program gives officially accepted students an opportunity to earn recognition for distinguished academic performance in general education courses. Those participants who successfully complete the requirements for honors in general education will have a notation placed on their transcripts.

Entrance to the Program

Academic achievement in high school or college serves as the prerequisite for admission to the honors program. Those eligible for entrance include (1) first-time freshmen with a high school g.p.a. (grade point average) of 3.5 or better and (2) continuing students with a collegiate g.p.a. of 3.0 or better.

Students should declare their intent to pursue the General Education Honors Program by submitting a formal letter of application to the coordinator of the General Education Honors Program. The letter should include the student's name, current address and phone number, high school or college g.p.a., and a paragraph stating the reasons for pursuing the program.

Entrance to Courses of State o

Individual honors courses are also open to any student who meets the program's g.p.a. standards. Exceptions to this policy may be made with the consent of the honors course instructor and the authorization of the honors program coordinator. First priority for class entrance, however, goes to students formally admitted to Transfer students who are certified in any carear. Transfer students are certified in any carear.

Requirements for Completion

Program students are normally expected to average one honors course a semester. These course sections are officially designated in the class schedule by an "H" after the course number. Honors sections are offered for the following courses (not all are offered every semester):

American Studies 201 390	Linguistics 106
American Studies 301	Mathematics 110
American Studies 450	Mathematics 150A
Anthropology 100	Music 100
Anthropology 101	Music 350
Anthropology 102	Philosophy 100
Anthropology 415	Philosophy 110
Art 101	Philosophy 115
Biological Science 101	Philosophy 116
Chemistry 120A	Philosophy 200
Comparative Literature 110	Philosophy 210
Comparative Literature 111	Philosophy 310
Economics 100	Political Science 100
English 110	Political Science 350
English 111	Psychology 101
English 200	Religious Studies 110
Geol Sciences 101	Religious Studies 270
History 110A	Sociology 456
History 110B	Speech Communication 102
History 430	hemistry 115t cr. larenducte

To complete the honors program, a student must (1) complete 30 units of general education honors courses with a grade of C or better in each course and (2) accomplish a g.p.a. of 3.25 or better for the 30 units of general education honors courses attempted. With approval of the honors program coordinator, up to six units of advanced placement credit with a score of 4 or higher may be substituted for general education honors credit.

Students are responsible for requesting a review of their records to verify completion. Upon verification, a notation will be made on the student's transcript indicating completion of the program.

Transfer Course Work

Students transferring into CSUF who have taken honors courses at another accredited institution may apply those courses to the General Education Honors Program.

The following stipulations apply to the transfer of courses:

- 1. The course is used in partial fullfillment of CSUF general education requirements.
- 2. The course is designated and acknowledged as an honors course by the institution where the course was taken.
- 3. The course was completed with a grade of B or better.
- Courses in this argatate tops cal and thematic specialized inquisites 4. A maximum of nine units of transfer honors courses may be applied toward completion of the honors program.

Any questions concerning the Honors Program should be directed to the coordinator of the General Education Honors Program.

I. BASIC SUBJECTS (9 units minimum)

NOTE: A grade of "C" or better is required in sections I.A., I.B., A. The Development of Civilization (6 A.A.III bna .A.III bna .A.

A. Oral Communication (3 units minimum)

Courses in this area are designed to impart skills in the use of human symbolic interaction, focusing on effective speaking.

Choices:

Chicano Studies 102	Communication Skills (3)
Speech Comm 100	Introduction to Human
machine with Leaning str	Communication (3)
Speech Comm 102	Public Speaking (3)
Theatre 110	Oral Communication of Literature (3)

B. Written Communication (3 units minimum)

The course in this area is designed to impart skills in organizing, analyzing, and expressing thoughts and concepts in standard written English. Students must pass the English Placement Test prior to enrolling in the course.

English 101	Beginning Coll	ege Writing (3)
		-0

C. Critical Thinking (3 units minimum)

Courses in this area are designed to develop skills in critical thinking, including the ability to distinguish fact from judgment and belief from knowledge, to reason inductively and deductively, and to understand the formal and informal fallacies of lan-Chicano Studies 190 Survey of American Hagundt bas againg

English 103	Critical Reasoning and Writing (3)
Philosophy 200	Argument and Reasoning (3)
Philosophy 210	Logic (3) Logic (3)
Psychology 110	Reasoning and Problem
determine standard store	
Reading 290	Critical Reading as Critical bear 8071
Choices	Thinking (3)
Speech Comm 235	Essentials of Argumentation and
Aug. 3/31 (5)	Debate (3)

D. Reading Communication

The course in this area is designed to impart skills in the use of human symbolic interaction, focusing on effective reading.

Reading 201	Academic Reading: Analysis &
Theatre 100	Strategies (3)

II. HISTORICAL AND CULTURAL FOUNDATIONS (12 units minimum)

A. The Development of Civilization (6 units minimum)

Courses in this area give a holistic view of the development of society — its values, traditions, and institutions.

History 110A The West and the World to the 16th

Century (3)

AND

The West and the World Since the History 110B

16th Century (3)

B. American History, Institutions and Values (6 units minimum)

Courses in this section meet Title 5, section 40404, requirements by providing "comprehensive study of American history and American government including the historical development of American institutions and ideals, the Constitution of the United States and the operation of representative democratic government under the Constitution, and the process of state and local government."

1. American History (3 units minimum)

Choices:

Emphasis on Ethnic Minorities (3)
Introduction to American
Studies (3)
Survey of American History with
Emphasis on Ethnic Minorities (3)
United States to 1877 (3)
United States Since 1877 (3)
Survey of American History (3)
Survey of American History with

Afro-Ethnic 190 Survey of American History with

NOTE: Students who take History 170A must also take History 170B and vice versa.

Emphasis on Ethnic Minorities (3)

2. Government (3 units minimum)

Political Science 100 American Government (3)

NOTE: Transfer students from outside the State of California who have ALREADY completed a basic course in American Government may substitute Political Science 300 Contemporary Issues in California Government and Politics (3) for Political Science 100.

III. DISCIPLINARY CORE COURSES (21 units minimum)

A. Mathematics and Natural Sciences (12 units)

At least one laboratory course must be taken in III.A.1., III.A.2., or III.A.3. Approved laboratory courses are indicated with a dagger (†).

1. Physical Science (3 units minimum)

Courses in this area provide the content and methodology that form the bases for studies in the physical sciences.

Choices:

Chemistry 100	Survey of Chemistry (3)
Chemistry 100L†	Survey of Chemistry Lab (1)
Chemistry 115†	Introductory General
	Chemistry (4)
Chemistry 120A†	General Chemistry (5)
Geological Sci 101	Physical Geology (3)
Geological Sci 101L†	Physical Geology Lab (1)
Physics 123	Perspectives of Man's Physical
	Universe (3)
Physics 123L†	Perspectives of Man's Physical
	Universe Lab (1)
Physics 211A	Elementary Physics (3)
Physics 211AL†	Elementary Physics Lab (1)
Physics 225A	Fundamental Physics:
	Mechanics (3)
Physics 225AL†	Fundamental Physics: Lab (1)

2. Biological Science (3 units minimum)

Courses in this area provide the content and methodology that form the bases for studies in the biological sciences.

Choices:

Elements of Biology (3) Biological Sci 101 Biological Sci 101L† Elements of Biology (1) Biological Sci 131† Principals of Biology (3)

3. Alternatives in Natural Sciences and Mathematics

Courses in this area are topical and thematic specialized inquiries into the contributions of the sciences and mathematics. These courses have a substantial scientific and/ or mathematical content. In addition, they are either introductory to the major subdisciplines or they relate science and/or mathematics to significant social problems or other related disciplines.

Choices: 0001 or vidgo	Philosophy 115 Western Philoso
	Philosophy 116 Western Philoso
Anthropology 101	Introduction to Biological Anthropology (3)
Anthropology 375	Science in Archaeology (3)
Biological Sci 300	Environmental Biology (3)
Biological Sci 305	Human Heredity & 018 ydgosolida
chrew-Akwards	Development (3) Development (3)
	Biology of Aging (3) 101 asibine and A
	Human Physiology (3)
	Nutrition & Disease (3)
	Human Genetics (3)000 asibus? gils A
Biological Sci 314	Human Issues in Genetics (1)
Biological Sci 317	Wildlife Conservation: Current Issues
	and Future Directions (1)
Biological Sci 318	Wildlife Conservation (3)
Biological Sci 319	Marine Biology (3)
Biological Sci 319L†	Marine Biology Lab (1)
Biological Sci 323	Biology of Sexually Transmitted
	Diseases (STD) (1)
Biological Sci 352	Plants and Life (3)
Biological Sci 353	Principles of Horticulture (2)
Biological Sci 353L†	Principles of Horticulture Lab (1)
Biological Sci 360	Biology Of Human Sexuality (1)
Biological Sci 367	Insects & The Human Ecosystem (3)
Chemistry 111	Nutrition & Drugs (3)
Chemistry 311	Nutrition & Disease (3)
Chemistry 321	Molecules & Life (3)
Computer Sci 313	The Computer Impact (3)
Computer Sci 381	Knowledge Engineering (3)
Geography 110	Principles of Physical Geography (3)
Geography 120	Environment and Change (3)
Geological Sci 120	Introduction to Earth Science (3)
Geological Sci 120L†	Earth Science Lab (1)
Geological Sci 140	Earth's Atmosphere (3)
Geological Sci 201	Earth History (4)
Geological Sci 310	Topics in California Related
College Studies 433	Geology (1-3)
Geological Sci 333	Oceanography (3)
Geological Sci 335	General Hydrology (3)
Geological Sci 340	General Meterology (3)
Geological Sci 376	Applied Geology (3) inim sinu (2)
History 230	Ascent of Man (3)
History 321	Molecules and Life (3)
History 430	History of Science: Copernicus to the
DL:1 1 202	Present (3)
Philosophy 303	Introduction to Philosophy of
Philasal 204	Science (3)
Philosophy 384	Philosophy of the Physical Sci (3)
Philosophy 386 Physical Sci 100	Philosophy of Biology (3) Man & His Physical Environment (4)
Physical Sci 100 Physics 100	Man & His Physical Environment (4)
Physics 105	Man & His Physical Environment (4) Fads & Fallacies in the Name of
- Hysics 103	Science (1)
Physics 107	
-11/5103 101	Society (1)
	occiety (1)

Physics 200 minim air	Introduction to Astronomy (4)
Physics 384	Philosophy of the Physical Sci (3)
Sociology 303	Statistics for the Social
zarion in to fatguage.	
Speech Comm 303	Biology of Human
	Communication (3)
Mathematics 338	Statistics Applied to Natural Sciences (3)
Mathematics 368	First Course in Symbolic Logic (3)
Philosophy 368	First Course in Symbolic Logic (3)

4. Mathematics (3 units minimum)

Courses in this area are designed to provide a basis for understanding mathematical concepts and methodologies and their applications. A grade of "C" or better is required in this section. Students must pass the Entry Level Mathematics (ELM) test before taking any course in this section. No more than four (4) units of lower-division course work may be counted in this section. In Samuel Oll deiland

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Management Sci 361	Probability and Statistical Methods in
	Business & Economics (4)
Mathematics 110	Mathematics for Liberal Arts Students
Mathematics 115	College Algebra (4)
Mathematics 120	Introduction to Probability &
	Statistics (3)
Mathematics 125	Precaculus (4)
Mathematics 130	A Short Course in Calculus (4)
Mathematics 135	Business Calculus (3)
Mathematics 150A	Analytic Geometry and
Right Languages (3-5)	Calculus (4)
	to The beautiful Some Wille Breek Tuest

B. Arts and Humanities (6 units minimum)

1. Introduction to the Arts (3 units minimum)

Courses in this area are designed to motivate students to cultivate and refine their affective, cognitive and physical faculties through studying great works of the human imagination.

Choices: (2) Choices: (2) Choices: (2) Choices: (2) Choices: (3) Choices: (4) Choices: (5) Choices: (6) Choices: (7) Choices: (7) Choices: (8) Choic

Art 101	Introduction to Art (3)
Art 201A	Art and Civilization (3)
Art 201B	Art and Civilization (3)
Art 311	Foundations of Modern Art (3)
Art 312	Modern Art (3)
Dance 101	Introduction to Dance (3)
Music 100	Introduction to Music (3)
Music 101	Theory for Non-Music Majors (3)
Theatre 100	Introduction to the Theatre (3)

German 214

2. Introduction to the Humanities (3 units minimum)

Courses in this area introduce students to reflective inquiry into the values and subjective responses of civilization in its language, philosophy, and literature.

Choices

Anthropology 100	Non-Western Cultures & the Western
(c) billion prinatili	Tradition (3)
Comparative Lit 110	Literature of the Western World from Ancient through Medieval Times (3)
Comparative Lit 111	Literature of the Western World from
basis for understanding	the Renaissance through the 19th
	Century (3) home area provides the comments
Comparative Lit 324	World Literature to 1650 (3)
Comparative Lit 325	World Literature from 1650 (3)
Comparative Lit 373	Masters of Russian Literature (3)
English 110	Literature of the Western World from
	Ancient through Medieval Times (3)
English 111	Literature of the Western World
	from Renaissance through the 19th
	Century (3)
English 200	Introduction to Literature (3)
English 311	Masters of British Literature to
	1760 (3)
English 312	Masters of British Literature from
	1760 (3)
English 321	American Literature to Whitman (3)
English 322	American Literature from Twain to th
	Moderns (3)
Foreign Lang 101	Fundamental Foreign Languages (3-5)
Foreign Lang 102	Fundamental Foreign Languages (3-5)
Foreign Lang 203	Intermediate Foreign Languages (3-5)
Foreign Lang 204	Intermediate Foreign Languages (3-5)
French 103	Intensive Review of Fundamental
	French (5)
French 230	Intermediate Diction and
	Phonetics (2)
French 240	Intermediate Conversation and
	Composition (2)
German 103	Intensive Review of Fundamental
	German (5) of the series of th
German 213	Intermediate Reading (2)
German 214	Intermediate Reading (2)
Linguistics 106	Language and Linguistics (3)
Linguistics 301	Sanskrit (4)
Spanish 103	Intensive Review of Fundamental
	Spanish (5)
Spanish 201	Spanish for Hispanics (3)
Spanish 213	Intermediate Conversation (2)
Spanish 214	Intermediate Composition (2)
Philosophy 100	Introduction to Philosophy (3)
Philosophy 110	Comparative Study of the World's
the Theated 31 and	Great Religions (3)

Philosophy 115	Western Philosophy to 1600 (3)
Philosophy 116	Western Philosophy since 1600 (3)
Philosophy 290	History of Philosophy: Greek
A. Mathematics and R	Philosophy (3)
Philosophy 300	History of Philosophy: Rationalism &
Philosophy 310	Ethics (3) mH COE 68 In moloi8
	Fundamental Hebrew-A (4)
Relig. Studies 102	Fundamental Hebrew-B (4)
Relig. Studies 110	Comparative Study of the World's
	Great Religions (3) 118 128 Leongoloi8
Relig. Studies 200	Introduction to Christianity (3)
Relig. Studies 210	Introduction to Judaism
Relig. Studies 301	Sanskrit (4)

C. Social Sciences (3 units minimum)

1. Introduction to the Social Sciences (3 units minimum)

Courses in this area provide an introduction to the conceptual and methodological aspects of the social sciences to human, social, political, and economic institutions and behavior in their contemporary and historical settings.

Choices:

Introduction to American Culture Studies (3)
Introduction to Cultural
Anthropology (3)
The Economic Environment (3)
Principles of Microeconomics (3)
Principles of Economics (5)
World Geography (3)
Intro to the Study of Politics (3)
Introductory Psychology (3)
Introduction to Sociology (3)

IV. IMPLICATIONS, EXPLORATIONS AND LIFE-LONG LEARNING (9 units minimum)

At least one asterisked (*) course in IV. must be taken. Asterisked courses fulfill the cultural diversity requirement. Cultural diversity courses are designed to enhance understanding of cultural differences within or between western and/or non-western societies.

A. Implications and Explorations (6 units minimum)

1. Implications, Explorations and Participatory Experience in the Arts and Humanities (3 units minimum)

Courses in this area deepen the appreciation of the content of III.B.1. and III.B.2.

Choices: SaltamA-onlA of notaubottal TOT sindt3-onlA	English 352	African Literature (3)
Afro-Ethnic 314 Pan-African Dance and Agrands African Dance and Agrands Agrand	English 353	Cultural Pluralism in American
Movement (3)*	English 354 taxted all	Literature (3)* Linguistics & Literature (3)
Afro-Ethnic 320 Black American Intellectual	English 354 English 410	Introduction to Afro-American
Afro-Ethnic 352 Thought (3)* OOG or manufolays (3) African Literature (3)	de Keyboard (1)	Literature (3)
Afro-Ethnic 403 Oral History of Ethnic	English 433	Children's Literature (3)
(C) small America (3)*A TOE Stands on A	French 315	Origins of Modern France (3)*
Afro-Ethnic 410 Afro-American Literature (3)	French 375	Introduction to Literature (3)
Afro-Ethnic 437 American Indian Religions and Philosophy (3)	German 315	Introduction to German is adjoined Civilization (3)*
Afro-Ethnic 460 Afro-American Music	German 375 (c) vde	Introduction to Literary Forms (3)
Appreciation (3)*	Japanese 315	Introduction to Japanese
Anthropology 104 Traditional Cultures of the World (3)*	Parical and (3) (5) yel	
Anthropology 305 Anthropology of Religion (3) and Anthropology	Japanese 316	
Anthropology 306 Comparative Aesthetics and and on A	Japanese 375	
A 2 100	Portuguese 320	Introduction to Luso-Brazilian Culture
Art 100 Exploratory Course in Art (3) Art 103 Two-dimensional Design (3)		and Civilization (3)* OF Salaria Market Salaria (3)* OF Salari
Art 104 Three-dimensional Design (3)	President of President	
Art 106A Beginning Ceramics (3)		Introduction to Spanish-American
Art 107A Beginning Drawing & Painting (3)		Civilization (3)*
Art 107B Beginning Drawing & Painting (3)		Introduction to Literary Forms (3)
Art 205A Beginning Crafts (3) solute means MA		History of The Jews (3)
Art 216A Beginning Sculpture (3)	History 465A	History of India (3)*
Art 326A(E) restaurad Ceramic Sculpture (3) ibang mastrem A		American Religious History (3)
Art 338A (C) ment Creative Photography (3) C months A		Elements of Bibliographic
Art 364A Stained Glass (3) & suburd naprismA		Relig. Studies 341A (8) noitsgitsavnlel
Chicano Studies 302 Ancient Mexican Culture (3)*	Linguistics 354	Linguistics and Literature (3)
Chicano Studies 304 Music of Mexico (3) salbure nearman		Voice Class for Non-majors (1)
Chicano Studies 316 The Chicano Music Experience (3)*	Music 184A	Piano Class for Non-majors (1)
Chicano Studies 336 Main Trends in Spanish-American		Piano Class for Non-majors (1) Guitar class for Non-majors (1)
Chicano Studies 337 Contemporary Chicano Literature (3)		Guitar class for Non-Majors (1)
Chicano Studies 430 The Evolution of Mexican		Techniques of Song Writing (3)
Anthono Studies 450° The Evolution of Mexical Studies Anthono Literature (3)		History of Jazz (3)* Ole suggest
Chicano Studies 433 Mexican Literature Since 1940 (3)		Theatre 410A *(3)*
Chicano Studies 440 Mexican Intellectual Thought (3)*		Music of Mexico (3) ng of the human
Comparative Lit 312 of The Bible as Literature (3)		Symphonic Music in Western/Eastern
Comparative Lit 315 d Classical Mythology in World and A		Cultures (3) The areas of 2014 property
Literature (3)	Music 355	Film Music (3)
Comparative Lit 352 African Literature (3)	Music 361A	Symphony Orchestra (1)
Comparative Lit 374 Soviet Literature (3) Plans Comparative Lit 374 Soviet Literature (3)	Music 361B	University Choir (1)
Comparative Lit 380 M Introduction to Asian Literature (3)*	Music 361C and Island	2. Implications at (1) Symphonic Band (1)
Comparative Lit 423 Topics In Asian Literature (3)*	Music 361D	Opera Theatre (1)
Dance 112 Beginning Classical Ballet (2)	Music 361E	University Singers (1)
Dance 122A Beginning Modern Dance (2)	Music 361F	University Wind Ensemble (1)
Dance 126 (6) goldson Dance Improvisation (2) goldson In Page 132		Women's Choir (1) Wayson and our seil Varsity Band (1) and memud to ambusts
Dance 301 Beginning Jazz Dance (2) Dance 301 Dance and Cultural Diversity (3)*	Music 362D	Percussion Ensemble (1)
Dance 325 Dance Theory and Criticism (3)	Music 362E	Brass Ensemble (1)
English 105 Introduction to Creative Writing (3)	Music 362L	Lab Band (1) Generics (isosiod)
English 204 Intermediate Creative Writing (3)	Music 362M	Horn Ensemble (1)
English 320 Literature of the American	Music 362P	Choral Lab (1)
Indians (3)*	Music 362R	Chamber Orchestra (1)

Music 362S	Stage Band (1)	Afro-Ethnic 107	Introduction to Afro-American
Music 362X	Beginning Opera Techniques (1)		Studies (3)*
Music 363B	Chamber Ensemble Brass (1)	Afro-Ethnic 220	The Indian in American
Music 363G	Chamber Ensemble Guitar (1)		History (3)*
Music 363J	Jazz Combo (1)	Afro-Ethnic 245	A Study of Black Political
Music 363K	Chamber Ensemble Keyboard (1)	Development to 1900	
Music 363S	Chamber Ensemble Strings (1)	(3)*	
Music 363W	Chamber Ensemble Woodwind (1)	Afro-Ethnic 280	Afro-American History (3)
Music 363X	Chamber Ensemble Saxophone (1)	Afro-Ethnic 301	Afro-American Culture (3)*
Philosophy 312	Business & Professional Ethics (3)	Afro-Ethnic 309	The Black Family (3)*
Philosophy 314	Medical Ethics (3)	Afro-Ethnic 310	Black Women in America (3)
Philosophy 323	Existentialism (3)	Afro-Ethnic 311	Intracultural Socialization
Philosophy 350	Oriental Philosophy (3)*		Patterns (3) A Oak Simulation A
Political Sci 331	Comparative Third World Politics (3)	Afro-Ethnic 312	American Indian Women (3)*
Political Sci 340	Political Philosophy (3)	Afro-Ethnic 317	Black Politics (3)*
Relig. Studies 250	The Religion of Islam (3)	Afro-Ethnic 331	Tribalism and Reservation Life (3)*
Relig. Studies 270	Introduction to the Oriental	Afro-Ethnic 335	History of Racism (3)*
Sample Commission Column	Relig. (3)*	Afro-Ethnic 346	The African Experience (3)*
Relig. Studies 305	Anthropology of Religion (3)*	Afro-Ethnic 422	Psychology of the Afro-American (3)*
Relig. Studies 345A	History & Development of Christian	Afro-Ethnic 430	A Social Psychological Study in
	Thought: The Beginning to 1274 (3)	Ethnic Minority	Art 104
Relig. Studies 345B		Behavior (3)*	
	Thought: 1275 to the Present (3)		Pan-Africanism and Contemporary
Relig. Studies 346A	History & Development of Jewish	ring to Palacing (3)	
(£) sw	Thought: Biblical Origins to		Introduction to American Popular
	Maimonides (3)		Culture (3) A Add S 27A
Relig. Studies 346B	History & Development of Jewish		The American Character (3)*
reng. Octubes 5 105	Thought: 1204 to the Present (3)		The American Dream (3)
Relig. Studies 347A	History & Development of Hinduism		A American Social History,
reng. Studies 54774	to 1200 (3)*		1750-1860 (3) 1750-1860 (3)
Relig. Studies 347B	History & Development of Hinduism		American Social History,
(I) majam-no			
Relig. Studies 350	Major Christian Traditions (3)		The White Ethnic in America (3)*
Relig. Studies 405	History of the Jews (3)		Women in American Society (3)*
Theatre 163			Introduction to Archaeology (3)
Theatre 277			Language and Culture (3)
Theatre 310	Oral Interpretation of Shakespeare (3)	Anthropology 302	Culture and Personality: Psychological
Theatre 410A	Oral Interpretation of Prose		Discaro Scudies 433 Mexican Licens
French 230 - (E)	The state of the s	Anthropology 309	Applied Anthropology (3)
Theatre 410B	Oral Interpretation of Poetry (3)	Anthropology 321	The American Indian (3)
Theatre 410C	Oral Interpretation of Drama (3)	Anthropology 325	Peoples of South America (3)*
Theatre 411	Oral Interpretation of Children's	Anthropology 327	Origins of Civilizations (3)
	Literature (3)	Anthropology 328	Peoples of Africa (3)*
	Music 3618 Usangemy Choice	Anthropology 340	Peoples of Asia (3)*
2 Implications and F	xplorations in the Social Sciences (3 units	Anthropology 345	
minimum)	apiotations in the oociai ociences (5 units	7 Miditopology 343	Peoples of the Middle East & North Africa (3)*
		Anthropology 347	
	re topical and thematic, specialized inquir-	Anthropology 360	Peoples of the Pacific (3)*
			Contemporary American Culture (3)*
	tions of the social sciences to the under-	Anthropology 450 Chicano Studies 106	Culture and Education (3)

Chicano Studies 106 Introduction to Chicano Studies (3)*

Chicano Studies 305 The Chicano Family (3)*
Chicano Studies 403 Cultural Differences in Mexico & the

Chicano Studies 220 Mexican Heritage (3)*

Southwest (3)*

Chicano Studies 406 La Chicana (3)*

Choices:

Afro-Ethnic 101

standing of human behavior, both within and across traditional disciplines.

Introduction to Ethnic Studies (3)*

Chicano Studies 431	The Chicano Child (3)*	Political Sci 300	Contemporary Issues in California
Chicano Studies 432	The Chicano Adolescent (3)*		Government & Politics (3)
Chicano Studies 445	History of the Chicano (3)*	Political Sci 309	Intro to Metropolitan Politics (3)
Chicano Studies 450	The Chicano and Contemporary	Political Sci 310	American Political Behavior (3)
British Carlon San	Issues (3)	Political Sci 315	American Political Process (3)
Chicano Studies 453	Mexico Since 1906 (3)*	Political Sci 317	Black Politics (3)*
Chicano Studies 460	The Chicano and Politics (3)*	Political Sci 320	Politics, Policy and Administration (3)
Child Dev 312	Human Growth & Development (3)	Political Sci 330	Comparative Political Analysis (3)
Communications 233	Mass Communication in Modern	Political Sci 350	World Politics (3)
	Society (3)	Political Sci 352	American Foreign Policy (3)
Counseling 380	Theories and Techniques of	Political Sci 375	Public Law (3)
	Counseling (3)	Political Sci 445	Political Learning & Socialization (3)
Criminal Justice 300	Introduction to Criminal Justice (3)	Political Sci 460	The Chicano & Politics (3)*
Economics 201	Principles of Microeconomics (3)	Psychology 311	Educational Psychology (3)
Economics 202	Principles of Macroeconomics (3)	Psychology 312	The Psychology of Human Sexual
Economics 330	Comparative Economic Systems (3)		Behavior (3)
Economics 331	The Soviet Economy (3)	Psychology 331	Psychology of Personality (3)
Economics 332	Economic Problems of Asia (3)	Psychology 341	Abnormal Psychology (3)
Economics 333	Economic Development: Analysis &	Psychology 350	Environmental Psychology (3)
	Case Studies (3)	Psychology 351	Social Psychology (3)
Economics 334	Economics of Latin America & the	Psychology 361	Developmental Psychology (3)
	Caribbean (3)	Psychology 362	Psychology of Aging (3)
Economics 350	American Economic History (3)	Sociology 133	Introduction to Gerontology (3)
Economics 361	Urban Economics (3)	Sociology 361	Population Problems (3)
Economics 362	Environmental and Resource	Sociology 371	Urban Sociology (3)
	Economics (3)	Sociology 407	Women in Contemporary Society (3)
Geography 160	Culture and Environment (3)	Sociology 431	Minority Group Relations (3)*
Geography 170	The City (3)	Sociology 436	Social Stratification (3)*
Geography 332	United States and Canada (3)*	Sociology 450	Sociology of Sex Roles (3)
Geography 333	Latin America (3)*	Sociology 451	Sociology of the Family (3)
Geography 340	Asia (3)	Sociology 455	Medical Sociology (3)
Geography 344	Africa (3)*	Sociology 456	Mental Illness (3)
Geography 346	The Pacific World (3)	Sociology 465	Law and Society (3)
Geography 350	Conserv & Ecology in America (3)	Speech Comm 320	Intercultural Communication (3)*
History 270	Women in American History (3)*		
History 350	History of Latin American	B. Life-Long Learning	g (3 units minimum)
	Civilization (3)*		
History 360	Modern Asia: Nationalism &	Courses in this section	n facilitate understanding of the human
	Revolutionary Change (3)*	being as an integrated	physiological, social, and psychological
History 370	American Sex Reformers (3)	organism. They may als	so integrate major areas of earlier portions
History 386A	Amer Social History, 1750-1860 (3)	of the general education	n program (Sections II. through IV.A.2.).
History 386B	Amer Social History, 1865-1930 (3)	ple Subject Credential a	othorizes a person to teach in a classroom
History 452	20th Century Brazil (3)*	Choices:	
History 455	Latin America Since 1945 (3)	such as its elementary	
Human Services 311	Intracultural Socialization Patterns (3)*	American Studies 450	Women in American Society (3)*
Human Services 380	Theories and Techniques of	Anthropology 415	Culture & Nutrition (3)
20171000 300	Counseling (3)	Anthropology 417	Life Quests (3)
Linguistics 108	Linguistics and Minority Dialects (3)*	Anthropology 432	Women in Cross-Cultural
Linguistics 369	Language, Sex Roles & the Brain (3)		Perspective (3)
Linguistics 412	Sociolinguistics (3)	Biological Sci 306	Biology of Aging (3)
Philosophy 302	Introduction to Women's Studies (3)*	Biological Sci 311	Nutrition and Disease (3)
Philosophy 341	Assumptions of Psychotherapy (3)	Biological Sci 314	Human Issues in Genetics (1)
Philosophy 385	Philosophy of Social Sciences (3)	Biological Sci 360	Biology of Human Sexuality (1)
Physical Educ 381	Human Movement in Cultural	Chemistry 111	Nutrition & Drugs (3)
Liforear Dade 501	n (2)	Chemistry 311	Nutrition and Disease (3)

Chemistry 311

Perspective (3)

Nutrition and Disease (3)

Child Dev 312 Child Dev 330 Chicano Studies 305 Comparative Lit 355 Ed Sec 386 English 355 English 356 Geography 357

Health Science 101 Health Science 301 Human Services 300 Music 350 Nursing 301 Nursing 302

Human Growth and Development (3) Adolescence & Early Adulthood (3) The Chicano Family (3) Images of Women in Literature (3) Adolescence (3) Images of Women in Literature (3) The Literature of Aging (3) Social Geography: Perception & Personal Health (3)

Promotion of Optimal Health (3) Character and Conflict (3) Music in Our Society (3) Promotion of Optimal Health (3) Health Delivery System and the Consumer (3)

Philosophy 312 Philosophy 324 Physical Ed. 350 Psychology 312 Psychology 361 Psychology 362 Sociology 341 Sociology 450 Sociology 451 Sociology 460

Speech Comm 345

Philosophy 120

Business & Professional Ethics (3) Existential Group (3) Physical Activity & Lifelong Wellbeing (3) The Psychology of Human Sexual Behavior (3) Developmental Psychology (3) Psychology of Aging (3) Social Interaction (3) Sociology of Sex Roles (3) Sociology of the Family (3) Sociology of Death and Dying (3) Communications and Aging (3)

Philosophy of the Person (3)

Teaching Credential the multipling requirements **Programs**



Multiple Subject Waivergums and To

All students who have doclumented advisement as of December

31, 1990, undar a previous N. previous Ministe Subject Walver

program requirements. The following coursework requirement is

tres, and advice on a number of other important spatters of

California State University, Fullerton offers a full range of Stateapproved credential programs leading to careers in education. From its earliest days to the present, this has been one of the chief missions of the university. Pursuing a teaching credential in California is a complicated matter because of the number of specific requirements that must be met. Credential requirements are established by the Legislature and enforced by the Commission on Teacher Credentialing (CTC). This commission also reviews and approves all credential preparation programs, such as those at the university. An academic major in education is not permitted in California, thus students seeking teaching credentials must do so in conjunction with, or after the completion of, a baccalaureate degree program in an academic area outside of education. CSUF offers programs leading to basic teaching credentials, specialist credentials, and services credentials. The specialist and services credentials, described briefly below, are more advanced programs designed to be taken in conjunction with graduate study.

In this section of the catalog information is presented regarding:

- A. Basic Credential Programs
- B. The Multiple Subject Credential and Waiver Program
 - C. The Single Subject Credential and Waiver Programs
 - D. Supplementary Authorizations for the Basic Teaching 5.3 Credentials Arm 63 union minimum? -- one of the
- E. Specialist and Services Credentials

A. Basic Credential Programs

In California there are two basic teaching credentials, the Multiple Subject Credential and the Single Subject Credential. The Multiple Subject Credential authorizes a person to teach in a classroom where many different subjects are taught by a single individual, such as in elementary schools. The Single Subject Credential authorizes a teacher to teach in a classroom where only one subject is taught, such as a classroom in departmentalized high schools and some junior high schools. Thus the person interested in elementary school teaching should pursue the program designed for the Multiple Subject Credential, and the person interested in teaching a specific subject at the junior high or high school level should pursue the program for the Single Subject Credential. of difficulty) and essential that people such sound of addition who

In California a person can earn first a preliminary and then a clear basic teaching credential. The requirements for the clear credential are built on those for the preliminary credential. The preliminary credential is the level that authorizes beginning teaching.

Minimum Requirements for a Preliminary Multiple or Single Subject Credential

Although it is possible to complete the minimum requirements for a preliminary basic teaching credential in four years, it generally takes a good student with accurate academic advising about four and a half years full time to complete all the requirements for a preliminary basic teaching credential and a baccalaureate degree. The minimum requirements for a preliminary basic credential include:

- 1. A baccalaureate degree in a field other than professional education from a regionally accredited college or university.
- 2. An approved program of professional preparation, including supervised student teaching. A two semester program may be taken during the fourth and/or fifth year of study. Cal State Fullerton offers State approved professional preparation programs through the School of Human Development and Community Service. An alternative plan is the three semester Intern Credential Program, which combines one semester of supervised student teaching and coursework. This alternative is offered in both Multiple Subject and Multiple Subject with a Bilingual Emphasis Credential Programs. Further information about these programs, including admission and prerequisite requirements, is provided in this catalog under the Department of Elementary and Bilingual Education, and the Secondary Teacher Education Program.
- 3. Passage of the California Basic Education Skills Test (CBEST), a test of reading, writing, critical thinking and mathematics skills. CSUF is one of the State-approved testing centers for this examination as well as for other examinations used in the teacher credentialing process.
- 4. Demonstration of subject matter knowledge appropriate to the specific credential being authorized. This can be achieved either by passing a State-approved subject matter examination or by completing a State-approved examination Waiver Program. Cal State Fullerton offers Waiver Programs for the Multiple Subject subject matter examination and for 14 Single Subject examination areas. These programs are described in more detail below.
- 5. Satisfactory completion of at least two semester units of work on the provisions and principles of the U.S. Constitution or passage of an examination on this area.
- 6. Demonstration of a knowledge of the various methods of teaching reading.

To help ensure that all credential requirements are met with a minimum of difficulty, it is essential that people seek sound academic advising as soon as possible. The Office of Admissions to Teacher Education, located in Education Classroom 207, provides information on waiver program advising and specific credential requirements, details on procedures for admission to the professional program in teacher preparation, information on preprofessional prerequisites, and advice on a number of other important matters of concern to students interested in the possibility of becoming a teacher. Students are encouraged to seek the information offered by this Office at their earliest convenience.

B. The Multiple Subject Credential and Waiver Program

In California Professional Teacher Preparation is a two- or threesemester program taken during the fourth and/or fifth year of college; there is no major in education. Since students will be devoting their first three years of work to completing general education, major and waiver program requirements, it is essential that students consider their selection of an academic major carefully. Most persons interested in earning a Multiple Subject Credential at CSUF select child development, liberal studies or human services as an academic major. Persons interested in working as bilingual teachers by earning a Multiple Subject Credential with a Bilingual Emphasis, might consider majoring in a foreign language. Majors in the social sciences, humanities or natural sciences can also be excellent backgrounds for careers in elementary school teaching. According to California law, any major (other than education) can be selected.

Transfer students and students interested in qualifying for a CSUF waiver program should seek a transcript evaluation from the Credential Preparation Center, Education Classroom 207.

A person seeking a Multiple Subject Credential will also be required to demonstrate a broad general knowledge of the arts, humanities, social sciences, mathematics, language arts, and natural sciences. There are two ways to demonstrate that knowledge: one is by passing a State-approved examination, the other is by completing the CSUF State-approved Multiple Subject Waiver Program.

A student evaluated under an earlier waiver program retains the option of being evaluated under subsequent waiver programs.

Multiple Subject Waiver

The specific requirements of the CSUF waiver program are subject to change by the California Commission on Teacher Credentialing. Students wishing to complete waiver requirements as stipulated below must receive an official waiver evaluation through procedures established by the Credential Preparation Center located in the Education Classroom Building, Room 207.

All students who have documented advisement as of December 31, 1990, under a previously-approved Multiple Subject Waiver may complete that waiver if they can do so by August 31, 1994. A grade of C or better is required in all classes used to meet waiver program requirements. The following coursework requirement is effective January, 1991.

1. Language and Literature (21 units minimum)

1.1 Composition (6 units minimum)

1.11 Completion of the "Written Communication" requirement of the campus general education program

1.12 Any course approved by the University Board on Writing Proficiency as meeting the upper division writing requirement

1.2 Literature (6 units minimum)

*1.21 Children's literature (3 units minimum) — one of the following: English 433 or Theatre 411

1.22 Literature (3 units minimum) — one of the following: Chicano Studies 336, 337, 430 or 433; or Comparative Literature 111 or 325; or English 200, 311, 312, 321, 322 or 352

1.3 Speech (3 units minimum) — Completion of the "Oral Communication" requirement of the campus general

education program

1.4 Language acquisition (6 units minimum)

1.41 Grammar: English 303

1.42 Language acquisition — one of the following: Anthropology 300; Linguistics 106; Speech Communication 403; or one semester college level study of a modern foreign language

1.5 Interdisciplinary Studies (optional): Speech Communication 305 (NOTE: Students completing this course

may waive section)

2. Mathematics (9 units minimum)

2.1 Completion of the "Mathematics" requirement of the campus general education program

*2.2 Math education: Mathematics 303A and 303B

3. Science (15 units minimum)

3.1 Completion of the "Biological Science" requirement of the campus general education proram

Core Requirements in Subjects Commonly Taught (3

3.2 Completion of the "Physical Science" requirement of the campus general education program

3.3 Completion of the laboratory requirement of the campus general education program

3.4 Other coursework to complete the GE mathematics and natural sciences requirement (2 units minimum)

*3.5 Science Education (6 units minimum) Science Education 310 Science Education 453

4. Social Sciences and History (21 units minimum)

4.1 U.S. government/political science (3 units minimum) - completion of the "Government" requirement of the campus general education program

4.2 American History (3 units minimum) — completion of the "American History" requirement of the campus general education program

4.3 World History and Culture (3 units minimum) — one of the following: Anthropology 100; or History 110A, 110B, 303A, 303B, 400A or 400B

4.4 Geography (3 units minimum) — one of the following: Geography 100 or 160

4.5 Economics (3 units minimum) — one of the following: Economics 100, 201, 202 or 210; or Geography 360; or Political Science 457 world a halfstray and one restaur

4.6 Anthropology/Psychology/Sociology (3 units minimum) — one of the following: Anthropology 102; or Psychology 101; or Sociology 101

4.7 Cultural Diversity in the Social Sciences (3 units minimum) — one of the following GE cultural diversity classes: 1909 ALA 109 (1456 SHATE)

Afro-Ethnic Studies 309 or 311; or American Studies 301; or Anthropology 432; or Chicano Studies 305 or 431; or Sociology 431; or Speech Communication 320

4.8 Interdisciplinary Studies (optional): Liberal Studies 308 (NOTE: Students completing this course may waive section 4.5 or 4.6)

5. Humanities (9 units minimum) and Statistical Medical ba

5.1 Logic (3 units minimum) — completion of the "Critical Thinking" requirement of the campus general education

5.2 Philosophy/Ethics/Classics (3 units minimum) — one of the following: Latin 101; or Comparative Literature 110, 315, 320 or 324; or History 415A, 415B, 417A or 417B; or Philosophy 100, 115, 116, 290, 300 or 310

5.3 Comparative Arts (3 units minimum) — one of the following: American Studies 395; or Anthropology 306; or Dance 301; or Liberal Studies 306; or Music 350 or (so 352; or Theatre 402A med (Sheared)

6. Visual and Performing Arts (12 units minimum)

6.1 Completion of the "Introduction to the Arts" requirement of the campus general education program

'6.2 Children's art (3 units minimum) — must take Art 380

6.3 Children's music (3 units minimum) — one of the following: Music 333 or 433

*6.4 Children's theatre and dance — one of the following: Dance 471 or Theatre 402A

7. Health and Movement (6 units minimum)

- *7.1 Health (3 units minimum) must take Health Science
- *7.2 Movement for children (3 units minimum) Physical Education 372

8. Human Development (3 units minimum)

*8.1 Child Development 325

9. Field Experience (0-3 units)

9.1 Elementary Education 315 (or equivalent experience)

The above waiver program has been designed for maximal compatibility with the campus general education program. Nevertheless, good academic advising and careful course selection each semester are essential if a person is to complete major requirements, waiver requirements and general education requirements with the least amount of difficulty.

C. Single Subject Credentials and Waiver Programs

Although a person seeking a Single Subject Credential may complete any academic major, most people decide to complete the degree major closest to the subject field in which they wish to be authorized to teach. CSUF offers a Single Subject Credential program in each of the following 14 State-authorized subject fields: (munician strong) spiritacquett .?

Art Business Education - (mumicum emm E) 1901 1.3

English (English, Speech, Theater)

French managing like Test

boar German minim stime (Cleaners) units minim named of the of

Government (Political Science)

TO A History 14 A CLA storald to A SE 30 05 6 CE SO L Comina

Life Science (Biology)

5.3 Comparative Arts (3 units minimuscitamental the

Solowing American Studies 195, or American 306;

Physical Education

Physical Sciences (Chemistry, Geology and Physics)

Social Sciences (Anthropology, American Studies, Economics, Geography, Chicano Studies, History, Afro-Ethnic Studies, Psychology and Sociology)

Spanish

To demonstrate subject matter competence a person must either pass the appropriate State-approved examination, or complete a State-approved waiver program. These waiver programs generally coincide sufficiently with the degree major to make it possible to complete major requirements and waiver requirements using many of the same courses. But degree programs and waiver programs serve different purposes; taking one is not a guarantee that you will have satisfied the requirements of the other. Good advising and careful planning are crucial. Transfer students seeking a CSUF waiver should seek a transcript evaluation from the Credential Preparation Center, Education Classroom 207. The CSUF waiver programs for each of the Single Subject fields listed above are presented below:

SINGLE SUBJECT WAIVER: ART

Core Requirements in Subjects Commonly Taught (36 units)

Art 103	Two-dimensional Design (3)
Art 104	Three-dimensional Design (3)
Art 106A	Beginning Ceramics (3)
Art 107A,B	Beginning Drawing and Painting (6)
Art 117	Life Drawing (3)
A-+ 201 A D	Art and Civilization (6)

Art 201A,B Art and Civilization (6)
Art 205A Beginning Crafts (3) Art 207A Drawing and Painting (3) Watercolor (3)

Art 310A

Art 312 Art of the 20th Century 1900 to Present (3)

Breadth and Perspective Requirements (15 units)

Students select one of the following areas of emphasis

Drawing, Painting and General Art

Art 207B Drawing and Painting (3) Art 347 Printmaking-Etching (3) Art 307A, B Advanced Drawing and Painting (6)

Art 317 Life Studies: Draw, Paint and 1.5 Interdisciplinary Studies (E) gnitqlus ech Communi-

Beginning Crafts: Wood (3) Art 205B Advanced Crafts (3) 2000 (9) Advanced Crafts (3) Art 305A Art 306A,B Advanced Ceramics (6)
Art 315A Jewelry (3)

SINGLE SUBJECT WAIVER: BUSINESS **EDUCATION**

Core Requirements in Subjects Commonly Taught (30-33 units) all 3.11 Completion of the "Biological Science" requires

(All students must meet the following core requirements. In addition, each student must meet the requirements of one of the four specializations which are: accounting, marketing, economics, and office administration.)

Demonstration of Typewriting Proficiency

(Proficiency Exam: (1) five-minute timed writing; minimum score 40 words gross per minute with five errors maximum, and (2) demonstration of problem-solving ability: Setting up a business letter, tabulation problem and rough-draft material from unarranged copy and in mailable/usable form and (3) passing a written exam covering correct form and style (including punctuation, syllabication, and grammar) applicable to typewriting campus general education programs (campus general (.lliss

^{*}Assessment Portfolio courses.

Demonstration of Office Machines Proficiency

(Proficiency Exam: (1) Demonstration of ability to produce a complex business letter, containing tabulation, on a microcomputer or wordprocessor, in mailable form, and (2) ability to add columns of figures on a 10-key calculating machine using the touch system.)

Students pursuing a single subject waiver must take all of the following: (15 units)

Economics 201	Principles of Microeconomics (3)**
Economics 202	Principles of Macroeconomics (3)**
	- I make historians thereof

Business Law (3)

Accounting 201A,B Elementary Accounting (6)

One of the following: (3 units)

Management 246

Manag Sci 263	Intro to Information Systems and
SINGLE SLIB	Micro-Computer Applications (2) and
Manag Sci 264	Intro to Computer Programming (2) or
Manag Sci 265	Introduction to Information Systems

and Computer Programming (3) or

Computer Sci 112 Introduction to Computer Programming (3)

All of the following: (9 units)

Business Admin 301 Business Writing (3)
Finance 310 Personal Financial
Management (3)

Marketing 351 Principles of Marketing (3)

And one area of specialization: (3-6 units)

Accounting Specialization*

Accounting 301A,B Intermediate Accounting (6)

Marketing Specialization*

Marketing 352 Principles of Retailing (3)
Marketing 370 Consumer Behavior (3)

Economics Specialization*

Economics 310 Intermediate Microeconomic Analysis
(3)
Economics 320 Intermediate Macroeconomic Analysis
(3)

Office Administration Specialization*

Demonstration of Shorthand Proficiency

(Proficiency Exam: Ability to take dictation at a minimum of 80 words per minute for three minutes and transcribe the material into mailable/usable form.)

Management 339 Managing Business Operations and Organizations (3)

Breadth and Perspective Requirements (15 units) 708 Halland

Students must take 15 units selected from the following:

Accounting 302	Cost Accounting (3) in Public Paradorshill
Accounting 308	Concepts of Federal Income Tax (3)
Accounting 401	Advanced Accounting (3)
Economics 310	Intermediate Microeconomics (3)***
Economics 320	Intermediate Macroeconomics (3)***
Management 344	Intro to Systems Concepts (3)
Finance 320	Business Finance (3)
Management 340	Organizational Behavior (3)
Marketing 352	Principles of Retailing (3)***
Philosophy 312	Business/Professional Ethics (3)
Mathematics 135	Business Calculus (3)
Computer Sci 223F	Workshop in Fortran-77 (2)
Manage Sci 270	File Concepts and Cobal Programming
Political Dol. 3012	(3)
Management 339	Managing Business
	Operations/Organization (3)***

SINGLE SUBJECT WAIVER: ENGLISH (ENGLISH, THEATER, SPEECH)

Probability and Statistical Methods in Business and Economics (4)

Public Speaking: Five courses from the

Core Requirements in Subjects Commonly Taught (30 units)

Composition

Manage Sci 361

English 101 Beginning College Writing (3)

One of the following:

English 301 Advanced College Writing (3)

Theatre 477B Senior Seminar in Critical
Techniques (3)

Speech Comm 300 Intro to Research in Speech
Communications (3)

I inquistics

English 303 Structure of Modern English (3)

^{*}The concentrations for the business administration major in accounting, economics and marketing require a total of 18-20 units of in-depth course work in those areas.

^{**}Economics 210 Principles of Economics (5) may be substituted for Econ 201 and 202. Students who have already completed Econ 100 and 200 may substitute this combination for Econ 201 and 202.

^{***}These courses may not fulfill a portion of the breadth and perspective requirements if they are used to meet part of the core (specialization) requirements.

One of the following:

Linguistics 106 Linguistics and Minority

Dialects (3)

English 305 English Language in

America (3)

English 490 History of English Language (3)

Literature

All of the following:

English 300 Analysis of Literary Forms (3)
English 311 Masters of British Literature

to 1760 (3)

English 312 Masters of British Literature

from 1760 (3)

English 321 American Literature to

Whitman (3)

English 322 American Literature from Twain to the

Moderns (3)

English 334 Shakespeare (3)

Breadth and Perspective Requirements (15 units)

Students may select one of the following areas of emphasis:

Theatre: All of the following:

Theatre 200 Art of the Theatre (3)
Theatre 263 Acting (3)
Theatre 276A Stagecraft (3)
Theatre 370A Directing (3)

Theatre 402B Dramatic Activities for Children (3)

English Literature: Fifteen semester units of adviser-approved literature courses.

Public Speaking: Five courses from the following:

Speech Comm 102
Speech Comm 138
Speech Comm 200
Speech Comm 324
Speech Comm 324
Speech Comm 332
Speech Comm 334

SINGLE SUBJECT WAIVER: FRENCH

Upper-Division Requirements in Subjects Commonly Taught (30 units)

Language (Select 6 units from the following)

French 300 French Conversation (3)
French 317 Advanced Composition and Grammar (3)
French 318 Advanced Composition and Grammar

or to decise a filling son your come

Culture (Select 6 units from the following)

French 315 Origins of Modern France (3)
French 325 Contemporary French
Civilization (3)
French 407 French Film (3)

Linguistics (Select 6 units from the following)

French 385 Translation (3)
French 466 Introduction to French
Linguistics (3)
French 500 Stylistics (3)

Literature (Select 6 units from the following)

French 375 Introduction to Literature (3)
French 415 French Classicism (3)
French 425 French Romanticism (3)
French 475ABCD Senior Seminar (3)
French 485 French Literature (3)

Electives: Six upper-division units of electives selected from courses listed above in consultation with an adviser based on candidate's background, interest and teaching plans.

SINGLE SUBJECT WAIVER: GERMAN

Upper-Division Requirement in Subjects Commonly Taught (30 units)

Language (Select 6 units from the following) to some both

German 300 German Conversation (3)
Advanced Conversation and
Composition (3)
German 401 Advanced Conversation and
Vocabulary (3)

Culture (Select 6 units from the following)

German 315 Introduction to German Civilization
(3)
German 325 Current Trends in Culture of GermanSpeaking Peoples (3)

German 482 German Film (3)

Linguistics (Select 6 units from the following)

German 399 German Phonetics (3)
German 466 Introduction to German
Linguistics (3)

German 500 Advanced Structure and Style (3)

Literature ((Select	6	units	from	the	following)	

German 375	Introduction to Literary Forms (3)
German 430	German Literature and Culture to the
	Baroque (3)
German 440	18th Century German Literature and
	Culture (3)
German 450	19th Century German Literature and
	Culture (3)
German 460	20th Century German Literature and
	Culture (3)
German 485	Seminar in German
	Literature (3)

Electives: Six upper-division units of electives selected from courses listed above in consultation with an advisor based on candidate's background, interest and teaching plans.

History 35

SINGLE SUBJECT WAIVER: **GOVERNMENT**

Core Requirements in Subjects Commonly Taught (30 Semester Units)

Political Sci. 100	American Government (3)
Political Sci. 300	Contemporary Issues in California
	Government and Politics (3)
Political Sci. 309	Intro to Metropolitan Politics (3)
Political Sci. 310	American Political Behavior (3)
Political Sci. 315	American Political Process (3)
Political Sci. 320	Politics, Policy &
Biological (Shidefil a	Administration (3)
Political Sci. 330	Comparative Political Analysis (3)
Political Sci. 340	Political Philosophy (3)
Political Sci. 350	World Politics (3)
Political Sci. 375	Public Law (3)
	istory 487 Bistory of Africaic

Breadth and Perspective Requirements (15 Semester Units)

U	S.	Government (16	units	1

U.S. Government (0	. [1] [1] [1] [1] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2
Two courses from the	following: 146 yrotal H
Political Sci. 311	Research Proseminar in American Political Behavior (3)
Political Sci. 347	Political Theory and Political Practice (3)
Political Sci. 407	Quantitative Methods in Political Science (3)
Political Sci. 410	Political Parties (3)
Political Sci. 413	Pressure Groups and Public Opinions (3)
Political Sci. 414	The Legislative Process (3)
Political Sci. 415	Power and Participation in America (3)
Political Sci. 416	The American Presidency (3)
Political Sci. 445	Political Learning & Socialization (3)

Chicano 460 Afro 335	The Chicano and Politics (3) History of Racism (3)
Law (3 units) One of the following:	Augieta Geogeogypriscollol adi lo IIA
Chicano 360 Political Sci. 376	Chicanos and the Law (3) Research Proseminar in Public Law (3)
Political Sci. 470	Judicial Process (3)
Political Sci. 473	Introduction to Constitutional Law (3)
Political Sci. 474	Seminar in Constitutional Law: Civil Rights and Civil Liberties (3)
Political Sci. 475	Administrative Law (3)

Comparative Systems/International Politics (3 units)

Political Sci. 335	Comparative Political Change (3)
Political Sci. 351	Research Proseminar in International Politics (3)
Political Sci. 425	Comparative Public Administration (3)
Political Sci. 430	Government Politics of a Selected Nation-State (3)
Political Sci. 431	Government and Politics of a Selected Area (3)
Political Sci. 446	Corruption, Ethics and Public Policy (3)
Political Sci. 452	Foreign Policy of a Selected Country or Group of Countries (3)
Political Sci. 455	Comparative Analysis of Foreign Politics (3)

Public Administration (3 units) One of the following:

SINGLE SUBJ	and Administration (3)
Political Sci. 421	Public Finance Administration (3)
Political Sci. 422	Public Personnel
	Administration (3)
Political Sci. 423	Regional Planning and Development (3)
Political Sci. 424	Urban Planning and
	Development (3) Reported Reproduit
Political Sci. 425	Comparative Public Administration (3)
Political Sci. 426	Collective Bargaining in the Public
	Sector (3)
Political Sci. 427	Current Issues in Urban &
	Metropolitan Policy (3)
Political Sci. 429	Public Personnel Training (3)

Political Sci. 321 Research Proseminar in Politics, Policy

es
American Social
German 430 Cerman Internal
es (C) Superiod
American Social History
1860-1930 (3)
The American Character (3)
The American Dream (3)
American West in Symbol and
Myth (3)
Southern California Culture:
A Study of American
Regionalism (3)
Women in U.S. History (3)
Modern Mexico (3)
Canada, 1534-1967
History of Latin American Civilization
(3) (If not used to satisfy core
requirements) 1/14/1/1944/06
Modern Mexico (3)
American Colonial Civilization (3)
United States from Colony to
Nation (3)
Jeffersonian Themes in American
Society, 1800-1861 (3)
Democracy on Trial 1845-1877 (3)
The United States 1876-1914 (3)
America Comes of Age,
1914-1945 (3) OSS Los Isolnilos
United States Since 1945 (3)
The Urbanization of American
Political Sci. 340 Oblitical Sci. 340
U.S. Foreign Relations (3)
United States Cultural History (3)
History of American Parties &
Breadth and Perspective R (E) Politics (1)
n and Modern Europe: (at least 6 units)
Tidos Strong Folder (2)
Tudor-Stuart England (3)
Modern England and Great Britain (3)
European Intellectual History from
1500 to the Present (3)
Classical Greece (3)
Hellenistic Civilization (3) Roman Republic (3)
D F . (2)
Roman Empire (3)
The Renaissance (3) The Reformation (3)
Modern Germany from 18th
Russia to 1890 (3)
The Russian Revolutions and the
Soviet Regime (3) East Europe (3)

SINGLE SUBJECT WAIVER: LIFE SCIENCE

Core Requirements in Subjects Commonly Taught (31 units)

All	of	the	fol	lowing:
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Dance 312	
Biological Sci 141	Principles of Botany (2)
Biological Sci 141L	Principles of Botany Lab (2)
Biological Sci 161	Principles of Zoology (2)
Biological Sci 161L	Principles of Zoology Lab (2)
Biological Sci 302	General Microbiology (2)
Biological Sci 302L	General Microbiology Lab (2)
Biological Sci 312	Genetics (3)
Biological Sci 315	Cell and Molecular Biology (3)
Biological Sci 316	Principles of Ecology (3)
Basic Movement	form or of the real

One of the following:

Biological Sci 315L	Cell and Molecular Biology
	Lab (2)
Biological Sci 316L	Principles of Ecology Lab (2)

One of the following:

Biological Sci 362	Mammalian Physiology (4)
Biological Sci 410	Cell Physiology (4)
Biological Sci 468	Comparative Animal
	Physiology (4)
Biological Sci 444	Plant Physiology (4)
Physical Ed 151A	Scores (Alumins) primaring

One of the following:

Biological Sci 419	Marine Ecology (3) and
Biological Sci 419L	Marine Ecology Lab (1)
Biological Sci 446	Phycology (4)
Biological Sci 461	Invertebrate Zoology (4)
Biological Sci 475	Ichthyology (4)

Breadth and Perspective Requirements (27-30 units)

Chemistry 120A, B	General Chemistry (10)
Physics 211A,B and	Advanced Bowling (1)
Physics 211AL,BL	Elementary Physics (8)
One of the following:	tysical Ed 328 (1) (Cymnagica (4))

and and Ed 1190	Physical Ed 332 (1) [Emplied@lonA
Chemistry 302	Organic Chemistry Lab (2), 3 Isoland 1
or systcal Ed 130B	Physical Edit 33 outstand and outstalled in
Chemistry 303	Survey of Organic Chemistry (5)

One of the following:

M 1 120A	
Math 130A	A Short Course in Calculus (4)
Math 150A	Analytic Geometry and
	Calculus (4)

SINGLE SUBJECT WAIVER: **MATHEMATICS**

Unit Requirement (34 units)

Math 150A,B	Analytic Geometry and
	Calculus (8)
Math 250A,B	Intermediate Calculus (8)
Math 335	Mathematical Probability (3)
Math 380	History of Mathematics (3)
Math 401	Algebra and Probability for the
	Secondary Teacher (3)
Math 402	Logic and Geometry for the Secondary
	Teacher (3)
	Malamora Volleyball (1)

One of the following:

Math 435	Mathematical Statistics (3)
Math 438	Introduction to Stochastic Processes (3)
production of the state of the	

One of the following:

Computer Sci 112	Introduction to Computer
- Physical Ed 172	Programming (3)
Computer Sci 121	Programming Concepts (3)
Engineering 205	Digital Computation (3)

Closely Related Subjects Requirement (15)

Mathematics	302	Modern Algebra (3)
Mathematics	307	Applied Linear Algebra (3)

One of the following:

Computer Sci 131	Data Structures Concepts (3)
Computer Sci 231	File Systems Concepts (3)

Two of the following courses:

Advanced Calculus (3)
Mathematical Model Building (3)
First Course in Symbolic Logic (3)
Second Course in Symbolic Logic (3)

SINGLE SUBJECT WAIVER: MUSIC

Core Requirements in Subjects Commonly Taught (30 units)

Music 111A,B	Diatonic Harmony (6)
Music 211	Chromatic Harmony (3)
Music 251	Survey of Musical Literature (3)
Music 281B,P,S,W	Orchestral Instruments (1)
Music 319	Form and Analysis (3)
Music 351A	History and Literature of Music (Greek through Renaissance) (3)
Music 351B	History and Literature of Music (Baroque and Classics) (3)
Music 351C (5) go	History and Literature of Music (Romantic to Present) (3)
Music 391A	Choral Conducting (2)

Breadth and Perspective Requirements (15 + units)

One of the following: (2 units)

Music 320A 20th Century Techniques (2) Music 320B 20th Century Techniques (2)

One of the following: (4 units)

Music 323A Orchestration (2)

Music 324 Scoring for the Band (2)

Music 453A

Music 453B

Choral Literature and Interpretation

and (1) count

one of:

Music 457A Song Literature and Interpretation (2)

or

Music 457B Song Literature and Interpretation (2)

or

Music 468A Vocal Pedagogy (2)

Music 381 Survey of Recreational Instruments

(1)

and

Music 435 Music in the Modern Classroom (3)

One of the following: (2 or 3 units)

Music 333 Music and Child Development (3)
Music 354 Survey of Public School Choral Music
Materials (2)

Music 444 Survey of Marching Band Materials

(2)

Take at least five of the following: (5 units)

Music 361A Symphony Orchestra (1) Music 361B University Choir (1) Music 361C University Concert Band (1) Music 361D Opera Theatre (1) Music 361E University Singers (1) University Wind Ensemble (1) Music 361F Music 361M Men's Choir (1) Music 361W Women's Choir (1)

One of the following: (2 units)

Music 391B Choral Conducting (2)
Music 392A Instrumental Conducting (2)

Performance Requirement:

Perform at level sufficient to be admitted to Music 371 on principal instrument (O-4)

Piano Proficiency Requirement:

Completion of Music 282B or satisfactory passage of piano proficiency examination (0-4)

SINGLE SUBJECT WAIVER: PHYSICAL EDUCATION

Core Requirements in, or directly related to, Subjects Commonly Taught (30 units)

All of the following: (15 units)

Physical Ed 300	Principles of Movement (3)
Physical Ed 349	Measurement and Evaluation (3)
Physical Ed 352	Physiology of Exercise (3)
Physical Ed 364	Motor Development (3)
Physical Ed 371	Principles of Human Motor Learning (3)

Analysis of Sports: (4 units)

Physical Ed 303	Field Events (2)
Physical Ed 304	Swimming (2)
Physical Ed 305	Golf (2)
Physical Ed 306	Gymnastics (2)
Physical Ed 308	Soccer (2)
Physical Ed 309	Badminton/Racquetball (2)
Physical Ed 312	Tennis (2) The suffrage of the
Physical Ed 316	Volleyball (2)
Physical Ed 319	Softball (2)

Techniques of Coaching: (2 units)

Physical Ed 328	Gymnastics (2)
Physical Ed 330	Softball (2)
Physical Ed 332	Tennis (2)
Physical Ed 334	Baseball (2)
Physical Ed 335	Football (2)
Physical Ed 337	Basketball (2)
Physical Ed 338	Volleyball (2)

Activities (9 units: at least one course in each of the five commonly taught areas; at least six of the nine units at the intermediate, advanced or intercollegiate level)

Breadth and Perspective Requirements;	Physical Ed 133	Handball (1)
		Children's Games (1)
Introduction to Dance (3)		Olympic Power Lifting (1)
		Beginning Wrestling (1)
		Intermediate Wrestling (1)
Advanced Classical Ballet (3)		Beginning Fencing (1) Beat Let Isolave
		Intermediate Fencing (1)
		Baseball (1) Baseb
		Beginning Slow Pitch (1)
	The state of the s	Intermediate Slow Pitch (1)
Intermediate Jazz Dance (3)		Fast Pitch Softball (1)
		Beginning Volleyball (1)
		Intermediate Volleyball (1)
		Advanced Volleyball (1)
		Beginning Soccer (1)
Biological Sci 101 (and Elements of Biol		Intermediate Soccer (1)
		Team Handball (1)
		Beginning Basketball (1)
		Intermediate Basketball (1)
		Advanced Basketball (1)
		Intercollegiate Golf (2)
		Intercollegiate Cross Country (2)
Horseback Riding (1)		Intercollegiate Track-Field (2)
		Intercollegiate Tennis (2)
		Intercollegiate Wrestling (2)
		Intercollegiate Fencing (2)
		Intercollegiate Basketball (2)
		Intercollegiate Baseball (2)
		Intercollegiate Soccer (2)
		Intercollegiate Football (2)
D		Intercollegiate Volleyball (2)
		Intercollegiate Softball (2)
0 100 0	Thysical Ed 100	nemano imano di A QLI vitamon
	Aquatics	
T 1: 11 1 W (2)	riquatics	
THE THE PERSON OF THE PERSON O	Physical Ed 110A	Beginning Swimming (1)
CI WALVER: SPANISH		Intermediate Swimming (1)
rement in Subjects Commonly There's		Advanced Swimming (1)
Beginning Bowling (1)		Life Saving (1)
		Water Polo (1)
		Skin Diving (1)
Beginning Archery (1)		Springboard Diving (1)
		Beginning Sailing (1)
Advanced Archery (1)		Intermediate Sailing (1)
		Intercollegiate Water Polo (2)
		Water Safety Instructor (2)
		Basic Scuba (2)
	Committee of the contract of t	Intermediate Scuba (2)
	the also authorized to b	en la reflexiona primare promise subject are
Beginning Tennis (1)	Gymnastics	eries 226Co blet the figure conservations
Advanced/Beginning Tennis (1)	thorization. CSUF offe	
Intermediate Tennis (1)	Physical Ed 120A	Beginning Gymnastics (1)
그 사람들은 소설이 많은 그리고 있는데 그렇게 되었다. 이 경기를 하면 되었다면 가게 되었다면 하는데 그렇게 되었다면 하는데 그렇다면 하는데 그렇다면 하는데 그렇다면 하는데 그렇다면 하는데 그렇다면 그렇다면 하는데 그렇다면 그렇다면 하는데 그렇다면 그렇다면 그렇다면 그렇다면 그렇다면 그렇다면 그렇다면 그렇다면	Physical Ed 120B	Intermediate Gymnastics (1)
Advanced lennis [1]		
Advanced lennis (1)		
Beginning Racquetball (1) Intermediate Racquetball (1)	Physical Ed 120C Physical Ed 170	Advanced Gymnastics (1) Intercollegiate Gymnastics (2)
	Introduction to Dance (3) Beginning Classical Ballet (2) Intermediate Ballet (2) Advanced Classical Ballet (3) Beginning Modern Dance (2) Intermediate Modern Dance (3) Dance Composition (3) Beginning Jazz Dance (2) Intermediate Jazz Dance (3) Advanced Jazz Dance (3) Beginning Tap Dance (2) Intermediate Tap Dance (2) Intermediate Tap Dance (2) Intermediate Tap Dance (2) Intermediate Tap Dance (1) Physical Conditioning (1) Beginning Jogging (1) Intermediate/Advanced Jogging (1) Horseback Riding (1) Cycling (1) Rock Climbing (1) Exercise Weight Control (1) Body Building (1) Beginning Aikido (1) Intermediate Aikido (1) Beginning Karate (1) Intermediate Karate (1) Self-Defense (1) Basic Hatha Yoga (2) Intermediate Hatha Yoga (2) Intermediate Archery (1) Intermediate Archery (1) Beginning Golf (1) Intermediate Archery (1) Beginning Golf (1) Intermediate Golf (1) Advanced Golf (1) Beginning Badminton (1)	Introduction to Dance (3) Beginning Classical Ballet (2) Advanced Classical Ballet (3) Beginning Modern Dance (2) Intermediate Modern Dance (2) Intermediate Modern Dance (3) Dance Composition (3) Beginning Jazz Dance (3) Dance Composition (3) Beginning Jazz Dance (3) Physical Ed 155B Intermediate Jazz Dance (3) Physical Ed 161A Beginning Jaz Dance (3) Physical Ed 161B Physical Ed 161B Physical Ed 164A Physical Ed 165A Physical Ed 165B Physical Ed 165B Physical Ed 167B Physical Ed 167B Physical Ed 167B Physical Ed 167C Physical Ed 167B Physical Ed 167B Physical Ed 167B Physical Ed 171 Physical Ed 171 Physical Ed 171 Physical Ed 171 Physical Ed 172 Physical Ed 171 Physical Ed 175 Roller Skating (1) Rock Climbing (1) Physical Ed 175 Physical Ed 176 Physical Ed 177 Physical Ed 177 Physical Ed 178 Physical Ed 178 Physical Ed 179 Physical Ed 179 Physical Ed 179 Physical Ed 180 Intermediate Aikido (1) Physical Ed 180 Intermediate Karate (1) Physical Ed 180 Physical Ed 110A Physical Ed 111 Physical Ed 110A Physical Ed 111 Physical Ed 110A Physical Ed 110A Physical Ed 111 Physical Ed 111 Physical Ed 110A Physical Ed 111 Physical Ed 111 Physical Ed 111 Physical Ed 111 Physical Ed 110A Physical Ed 111 Physical Ed 111 Physical Ed 111 Physical Ed 112 Physical Ed 111 Physical Ed 110A Physical Ed 111 Physical Ed 122A Physical Ed 111 Physical Ed 121

Depth and Perspective Requirements (15 units)

One of the following courses:

Physical Ed 380 History of Physical Education (3) Physical Ed 382 Philosophical Perspectives (3)

One of the following courses:

Human Movement in Cultural Physical Ed 381

Perspective (3)

Physical Ed 384 Sport Sociology (3)

Three of the following courses:

Physical Ed 340 Contemporary Movement

Environments (3)

Developmental Adaptations of the Physical Ed 363

Atypical (3)

Prevention and Care of Athletic Physical Ed 365

Injuries (3)

Physical Ed 372 Movement and the Child (3)

Physical Ed 373 Movement Concepts (3) Physical Ed 383 Sport Psychology (3)

SINGLE SUBJECT WAIVER: PHYSICAL SCIENCE

Core Requirements in Subjects Commonly Taught (39-42 units)

Chemistry 120 A.B General Chemistry (10)

One of the following: (5-8 units)

Chemistry 301A, B Organic Chemistry (6)

Organic Chemistry Lab (2), Chemistry 302

Survey of Organic Chemistry (5) Chemistry 303

All of the following: (24 units)

Physics 225A Fundamental Physics:

Mechanics (3)

Physics 225B Fundamental Physics: Electricity and

Magnetism (3)

Fundamental Physics: Modern Physics Physics 225C

Fundamental Physics Lab (1,1,1) Physics 225AL, BL, CL

Geological Sci 101 Physical Geology (3)

Geological Sci 101L

Physical Geology Lab (1)

Geological Sci 201 Earth History (4)

General Astronomy (4) Physics 350

Breadth and Perspective Requirements (19 units)

Math 150A, B Analytic Geometry and

Calculus (8)

One of the following:

Geological Sci 340 General Meteorology (3)

Chemistry 361A Intro to Physical Chemistry (3)

Chemistry 371A Physical Chemistry (3)

Physics 310 Thermodynamics, Kinetic Theory, and

Statistical Physics (3)

Two of the following:

Biological Sci 101 (and Elements of Biology and Lab (4)

Biological Sci 141 (and Principles of Botany and Lab (4)

Biological Sci 161 (and Principles of Zoology and Lab (4)

SINGLE SUBJECT WAIVER: SOCIAL SCIENCES

Core Requirements in Subjects Commonly Taught (33-36 units)

One of the following courses: (3-6 units)

Survey of American History (3) History 180

Amer Studies 201 Introduction to American Studies (3)

United States History (6) Ind Indiana History 170A, B

All of the following: (24 units)

Three units of History of California or California Government

Six units of American Government (6)

Three units in Economics (3)

Western Civilization to 16th History 110A

Century (3)

History 110B Western Civilization Since the 16th

Century (3)

Non-Western Cultures and the Anthropology 100

Western Tradition (3)

World Geography (3) Geography 100

One of the following: (3 units)

Hum Ser/Afro 311 Intracultural Social Patterns (3)

History of the Chicano (3) Chicano 445

One of the following: (3 units)

Amer Studies 301 The American Character (3)
Amer Studies 450 Women in American Society (3)

Breadth and Perspective Requirements (18 units)

One of the following courses:

Geography 330 California Landscape (3)
Geography 332 United States and Canada (3)

All of the following:

Three units of Sociology Barabaca by Harory and and ambula

Three units of Political Science managed by a design of the second by th

Three units of Psychology made not reach reading polymers, and ability levels and to assist all teachers in being better

Six units from any combination of the following:

Afro-Ethnic Studies
American Studies
Anthropology
Chicano Studies
Economics
Geography
History
Political Science
Psychology
Sociology

SINGLE SUBJECT WAIVER: SPANISH

Upper-Division Requirement in Subjects Commonly Taught (30 units) and see Deptidient students. See Deptidient students.

Language (Select 6 units from the following)

Spanish 300 Spanish Conversation (3)
Spanish 317 Advanced Conversation and
Composition (3)
Spanish 400 Spanish for Advanced Students (3)

Culture (Select 6 units from the following:)

Spanish 315
Spanish 316
Intro to Spanish Civilization (3)
Introduction to Spanish-American
Civilization (3)
Spanish 415
Spanish 416
Contemporary Spanish Culture (3)
Culture (3)

Linguistics (Select 6 units from the following:)

Spanish 466 Introduction to Spanish
Linguistics (3)
Spanish 467 Dialectology (3)
Spanish-English Contrastive
Analysis (3)

Literature (Select 6 units from the following:)

Spanish 375	Introduction to Literary Forms (3)
Spanish 430	Spanish Literature to
	Neoclassicism (3)
Spanish 441	Spanish American Literature (3)
Spanish 461	Spanish Literature since Neo- classicism (3)
Spanish 475	Topics in Spanish Peninsula describing Literature (3)
Spanish 485	Topics in Spanish American Literature (3)

Electives: Six upper-division units of electives selected from courses listed above in consultation with an adviser based on candidate's background, interest and teaching plans.

D. Supplementary Authorizations for the Basic Teaching Credentials

It is possible to expand the subject matter authorization a teaching credential initially carries to other subject fields. The State recognizes several subject areas that can be added to a Multiple Subject Credential; thereby qualifying person to teach in departmentalized junior high classrooms (grades 6-9). CSUF offers 16 Supplementary Authorizations for the Multiple Subject Credential in:

Art German French Life Science Health Science Physical Education Music Social Science Spanish Mathematics Business Physical Science General Science English as a Second Language English Computer Concepts & Applications

Supplementary Authorizations for the Single Subject Credential permit a person who holds a credential in one broad subject field to be also authorized to teach in another more specific subject area, one that might be quite different from the field of broader authorization. CSUF offers 37 supplementary authorizations for the single Subject Credential in:

Accounting/Computer Literacy
Animal Science (Zoology)
Anthropology

Biology

Ceramics

Chemistry

Comparative Political Systems/International Relations

Composition/Critical Thinking

Computer Concepts and Applications

Crafts (Arts)

Dance

Drama

Drug Use and Abuse

Earth Science (Geology)

Economics

Economic and Consumer Education

Electronics

Family Health

Geography

Graphic Arts

Instrumental Music

lewelry

Journalism

Literature

Marketing and Distribution

Painting and Drawing

Personal Health

Photography

Physics

Plant Science

Psychology

Sociology

Speech

U.S. Government/Civics

U.S. History/California History

Vocal Music

World History

Also, to permit the holder of a single subjects credential to teach certain subjects in grades 9 and below, CSUF offers eight supplementary authorizations in:

for the Basic Teaching C

General Science Introductory English Introductory French Introductory German Introductory Health Sciences Introductory Mathematics Introductory Social Science Introductory Spanish

Contact the Credential Preparation Center, Education Classroom 207, for details concerning course requirements for specific supplementary authorizations.

E. Specialist and Services Credentials

CSUF offers several State approved programs leading to more specialized credentials. Most of these programs build on the teaching experience that holders of a basic credential have achieved. Often these specialist or services credentials are oriented toward postbaccalaureate course work and coincide with Master's degree programs. Further information about specific requirements for each can be obtained under the appropriate departmental listing in this catalogue.

CSUF offers the following Specialist Credential programs:

- 1. Learning Handicapped, to teach the learning handicapped including the behaviorally disordered and educationally retarded. See Department of Special Education, School of Human Development and Community Service.
- 2. Reading Specialist, to teach reading to students of diversified grade and ability levels and to assist all teachers in being better reading teachers. See Department of Reading, School of Human Development and Community Service.
- 3. Resource Specialist (Certificate of Competency), to serve as a resource specialist in programs serving special education students, their parents and their regular teachers. See Department of Special Education, School of Human Development and Community Service.
- 4. Severely Handicapped, to teach the severely-multiply-handicapped, severely emotionally disturbed and autistic. See Department of Special Education, School of Human Development and Community Service.

In addition CSUF is currently seeking approval for a newly authorized credential, Language Development Specialist, to teach limited or non-English proficient students. See Department of Foreign Language and Literature, School of Humanities and Social Science.

CSUF offers the following Services Credential programs:

- 1. Administrative Internship, a field based internship program leading to a preliminary level administrative services credential. See Department of Educational Administration, School of Human Development and Community Service.
- 2. Administrative Services (Preliminary Level), the first step of the new two-step administrative services credential structure, authorizing service as a school site administrator, principal or other administrative officer of a school district. See Department of Educational Administration, School of Human Development and Community Service.

- 3. Administrative Services (Professional Level), the second step of the new two-step administrative services credential structure. See Department of Educational Administration, School of Human Development and Community Service.
- Clinical Rehabilitation (Language, Speech and Hearing), to provide services to students with exceptional needs and/or neurophysical disorders in language, speech, and hearing. See Department of Speech Communication, School of Humanities and Social Sciences.
- Clinical Rehabilitation (Special Class Authorization), to provide services to students with severe disorders of language. See Department of Speech Communication, School of Humanities and Social Sciences.
- Pupil Personnel Services, to provide counseling and testing services to students. See Department of Counseling, School of Human Development and Community Services.

Extended Education

Extended Education Building (714) 773-2611

Extension Programs

The Extension program is designed for those who are unable to take university work in residence but who wish to pursue university-level study for various purposes, such as resuming an interrupted or incomplete education, augmenting professional or vocational abilities, or enhancing personal growth and fulfillment.

Extension offerings include regularly established university credit courses as well as non-credit seminars and conferences, special weekend programs and travel study programs. Workshops and courses designed to meet the needs of particular groups and agencies may be initiated at any time during the year. Any adult may enroll in an extension course provided the prerequisites of the course are met. An individual does not have to be enrolled in the university in order to take extension courses.

The maximum amount of extension credit which will be accepted toward a baccalaureate degree is 24 semester units. Nine semester units of extension credit may be applied toward a master's degree with appropriate approval. Extension credit may not be used to fulfill the minimum residence requirement for graduation.

Extension courses are offered during fall, spring, summer session and intersession.

Adjunct Enrollment

Many of the regular university credit courses offered to enrolled students are also open on a space-available basis to extension students through Adjunct Enrollment. Matriculated students may not enroll through this program. Contact the Office of Extended Education for further information.

Summer Session

The summer session program is designed for regularly enrolled students, either at California State University, Fullerton or another university, who wish to accelerate progress toward a degree or credential; prospective students who wish to begin course work while admission to the university is in process; and members of the community who wish to enroll in a course or courses for professional advancement or personal enrichment. Summer session offerings consist of regular university courses and apply toward residence and graduation requirements. Students must satisfy all prerequisites for the course or courses in which they intend to register. The summer session curriculum consists of lowerdivision through graduate-level courses.

The summer session bulletin is available in March and may be obtained by writing or calling the Office of Extended Education. The bulletin contains course descriptions, special offerings, registration form and instructions. Registration may be completed by mail at specified times. Summer enrollment does not constitute admission to the university.

Televised Courses

Satellite teleconferences, credit and non-credit instruction, and conference activities are available for campus and public presentation via instructional television. Arrangements are made through the Office of Extended Education.

Intersession

Intersession is open to everyone — continuing and prospective students, community residents and visitors. Scheduled during January, the one-, two- and three-unit courses are primarily designed to meet the needs of students who wish to accelerate their academic progress.

The intersession offers extension courses as well as courses which earn resident credit and range from both lower- and upper-division credit courses to graduate-level offerings.

Certificate Programs

Certificate programs are designed for those who want formal recognition for completing a structured and rigorous course of study in a specific field, but who may not be interested in pursuing a university degree program. Certificates are awarded when participants complete the course requirements. The Office of Extended Education offers credit certificate programs in the fol-

Gerontology Technical Writing

Production and Inventory Practice School Business Management

Non-credit certificate programs are available in several areas including:

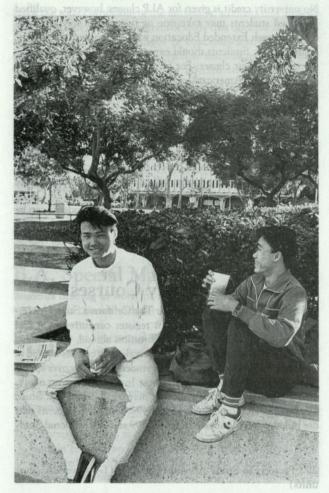
Commercial Bank Credit Analysis and Loan Extension C Programming Language Effective Employee Management Entrepreneurship Excellence in Manufacturing Management Industrial Controls Technology Industrial Distribution International Marketing Magic: The Performance Art Managing Multicultural Work Environments Perioperative Nursing Care Perioperative and Post-anesthesia Nursing Care

Transportation Demand Management New credit and non-credit programs are always being developed. For current titles, contact the Office of Extended Education.

Community Programs

The Office of Extended Education sponsors various community educational outreach programs including the Continuing Learning Experience (CLE) program for retired and semi-retired persons. For a list of current activities contact the CLE office.

International Programs



Open to students entolled in Celifornia State University International Programs. Study undertaken in a university adroad under the auspices of The California State University. Insurag or bailong securo noisivib-raqqu ron-rawol radial.

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Open to students enrolled in California State University International Programs. Study undertaken que a university abstead under
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592 Projects in Study Abroad (Subject)? (Figuralize University InternaCoen to students enrolled in California State University Interna-

Now in its 27th year of continuous operation, the California State University (CSU) International Programs offers students the opportunity to continue their studies overseas for a full academic year while they remain enrolled at their home CSU campus. The International Programs' primary purposes are to enable selected students to gain a firsthand understanding of other areas of the world and to advance their knowledge and skills within specific academic disciplines in pursuit of established degree objectives. Since its inception, the International Programs has enrolled nearly 10,000 CSU students.

A wide variety of academic majors may be accommodated by the 36 foreign universities cooperating with the International Programs in 16 countries around the globe. The affiliated institutions are: the University of Queensland (Australia); the University of São Paulo (Brazil); the Universities of the Province of Quebec (Canada); the University of Copenhagen (through DIS Study Program); the University of Provence (France); the Universities of Heidelberg and Tübingen (Germany); the Hebrew University of Jerusalem (Israel); the University of Florence (Italy); Waseda University (Japan); the IberoAmericana University (Mexico); Massey University and Lincoln University College (New Zealand); National Chengchi University (Republic of China/Taiwan); the Universities of Granada and Madrid (Spain); the University of Uppsala (Sweden); Bradford, Bristol, Sheffield, and Swansea Universities and Kingston Polytechnic (the United Kingdom) and the University of Zimbabwe (Zimbabwe). Information on academic course offerings available at these locations is in the International Programs Bulletin which may be obtained from the International Programs representative on campus.

To be selected to participate, students must have upper-division or graduate standing at a CSU campus by the time of departure, possess a cumulative grade-point average of 2.75 or 3.00, depending on the program, for all college level work completed at the time of application, and have completed required language or other preparatory study where applicable. Selection is competitive and is based on home campus recommendations and the applicant's academic record. Final selection is made by the Office of International Programs in consultation with a statewide selection committee.

The International Programs pays all tuition and administrative costs overseas for each of its participants to the same extent that such funds would be expended to support similar costs in California. Students assume responsibility for all personal costs, such as transportation, room and board, and living expenses, as well as for home campus fees. Because they remain enrolled at their home CSU campus while studying overseas, International Programs students earn full resident credit for all academic work completed while abroad and remain eligible to receive any form of financial aid (other than work-study) for which they can individually qualify.

Information and application materials may be obtained from Dr. Lee Gilbert, McCarthy Hall 103; the Office of International Education and Exchange, or by writing to The California State University, International Programs, 400 Golden Shore, Long Beach, California 90802-4275. Applications for the following academic year overseas must be submitted by February 1.

International Exchange Programs

California State University, Fullerton has direct institutional exchange programs with universities throughout the world. Such agreements allow for the exchange of faculty and students for purposes of teaching, study, research and for the promotion of cultural understanding and interaction.

Current programs link California State University, Fullerton with Fudan University, Shanghai; Zhejiang University, Hangzhou; Northwest University, Xian, People's Republic of China; eight campuses of the University of Paris, France; the Autonomous University of Guadalajara; the Mexicali and Ensenada campuses of the Autonomous University of Baja California, Mexico; the Moscow Institute of Steel and Alloys, USSR; and Nanzan University, Nagoya, Japan.

CSUF students pay home campus fees plus their living, transportation and related expenses. They must maintain home campus fulltime enrollment status in the exchange program. They thereby may qualify for any financial aid for which they normally would be eligible. Credit received while studying abroad is subject to CSUF departmental approval for determination of equivalency.

Information and application forms are available in the Office of Academic Programs, McCarthy Hall-129, and in the Office of International Education and Exchange, McCarthy Hall-79.

American Language Program

California State University, Fullerton welcomes international students who wish to perfect their English language skills. The American Language Program (ALP) course of study provides intensive practice in listening, speaking, reading, writing and study skills while promoting an understanding of U.S. culture and society. Classes are small, so students will receive individual attention which will help them achieve rapid fluency in English.

All entering ALP students must take a placement test. On the basis of the test results, students are placed in one of six academic levels. At the beginning and intermediate levels, students attend multi-skills classes for 24 hours per week. Additional hours are required for homework and practice in the Language Laboratory. Advanced level students are in a semi-intensive program. In addition to multi-skills classes, they may take specialized classes

such as English for Business, English for Science and Technology, or Test of English as a Foreign Language (TOEFL) preparation.

No university credit is given for ALP classes; however, qualified advanced students may take one or two classes for university credit through Extended Education with the consent of the program director. Students should expect regular homework assignments in all their classes. For further information, contact the Director of the American Language Program (714) 773-2909.

AIESEC

AIESEC, the French acronym for International Association of Students in Business and Economics, is an international student organization which works in cooperation with local corporations to bring business trainees from all parts of the world to Orange County and, therefore, earns credits for placement of CSUF students in the 61 other participating countries. Students can be engaged for periods from six weeks to eighteen months and gain invaluable business experiences in another culture. For further information call (714) 773-2266.

International Study Courses

Cal State Fullerton students under The California State University International Study Programs register concurrently at Cal State Fullerton and at the host institution abroad, with credits assigned to the student which are equivalent to courses offered at Cal State Fullerton. Undergraduate students who discover appropriate study opportunities at the host Institution but no equivalent course at Cal State Fullerton may use Independent Study 499 and International Study 292 or 492. Graduate students may use Independent Graduate Research 599 and International Study 592.

292 Projects in Study Abroad (Subject): (1-6 lower-division units)

Open to students enrolled in California State University International Programs. Study undertaken in a university abroad under the auspices of The California State University.

492 Projects in Study Abroad (Subject): (1-3 upper-division units)

Open to students enrolled in California State University International Programs. Study undertaken in a university abroad under the auspices of The California State University.

592 Projects in Study Abroad (Subject): (1-3 graduate units) Open to students enrolled in California State University International Programs. Study undertaken in a university abroad under the auspices of The California State University.

From the total curriculum of the university, students may wish to plan a specially designed program of study that does not duplicate significantly any existing major or concentration. The undergraduate special major and the graduate interdisciplinary studies program provide opportunities for selected students to pursue individualized programs of study leading to a degree when legitimate academic and professional goals can be satisfied by a judicious selection of courses from two or more fields, and when these aims cannot be satisfied by the authorized standard degree majors or double majors that are available on the campus (e.g., liberal studies, social sciences). The special major and interdisciplinary studies program are designed for exceptional cases of individual students only and provide an opportunity to develop a concentration or specialization outside the framework of existing majors. These programs are not intended as a means of bypassing normal graduation requirements or as a means by which students may graduate who fail to complete the degree major in which they are enrolled.

B.A. Special Major

Students desiring to work for a bachelor's degree with a special major should consult with the Office of Academic Advisement.

- 1. Entrance to the special major program is normally at the beginning of the junior year (60 units remaining for graduation).
- 2. The minimum requirement for the major is 48 units. A minimum of 36 upper-division units must be included in the major.
- 3. Although students may include on their study plans, course work in progress and a maximum of 12 units of course work completed prior to the time of filing, approval of these courses is not automatic.
- 4. No more than six units of 499 (Independent Study) and/or internship course work may be included in the major.
- 5. Neither lower- nor upper-division courses applied to general education breadth requirements will be applicable toward the major.
- 6. At least three units of appropriate course work in methodology shall be included in the student's study plan. Where appropriate this requirement may be waived by the University Curriculum Committee.
- 7. All courses in the major must be taken for a letter grade (Grade Option 1). A GPA of 3.0 in the major is required for graduation.

Special Programs

- 8. Prior to taking any substitute course work a petition for change of the study plan must be approved by the student's adviser and the University Curriculum Committee.
- 9. A senior thesis shall be written by the student in this program during the semester preceding graduation. This thesis should show scholarly evidence of the merit in the student's choice of an interdisciplinary program. This paper shall be written under the direction of the student's special major adviser and approved by the faculty designated by the departments represented on the student's study plan.

M.A. Interdisciplinary Studies

A graduate student desiring to work for a master's degree in interdisciplinary studies should consult with the Office of Graduate Studies and fill out an initial request form available at that office.

- 1. Entrance to the program requires a grade-point average (GPA) of 3.0 in the undergraduate major and a GPA of 3.0 in the last 60 units of course work.
- 2. The minimum requirement of units for an M.A. in Interdisciplinary Studies is 30 units of which at least half must be graduate courses (500 level).
- 3. Although students may include on their proposed study plan course work in progress or completed prior to the time of filing, approval of these courses is not automatic. No more than nine units of course work taken prior to classified standing can be approved on the program.
- 4. The program may contain no more than six units of Independent Study, Project or Thesis.
- 5. All courses on the study plan must be taken for a letter grade (Grade Option 1). A GPA of 3.0 is required on all work on the study plan.
- 6. Prior to taking any substitute course work, a petition for change of the study plan must be approved by the student's graduate adviser and graduate committee.
- 7. A Thesis or Project shall be required for the completion of the program. The completed thesis will be filed with the Library; whereas the project shall be filed with the Office of Graduate Studies. Made a vot male whose enabling beyong

Curricula Information

Course Descriptions

Course descriptions briefly describe the content or subject matter to be covered and provide additional information on units of credit, the level of instruction (see course numbering code), prerequisites and the type of course (lecture, laboratory, activity, seminar and individually supervised work).

Course Numbering Code

The first number in each course designation is intended to indicate the level of complexity of the course. In addition, the first number also is a rough index of the student's year of study at the university. The following are guidelines for course numbering.

- 001-099 Developmental or remedial level course work is precollege in nature. It may not be counted toward a degree objective.
- 100-199 First year or freshman level course work is introductory in nature. Such courses may provide the fundamental or essential elements or qualities important to a specific discipline. Emphasis in many first year courses may be on the development of preliminary skills. These courses are usually designed without prerequisites and may be characterized as emphasizing breadth rather than depth of instruction.
- 200-299 Second year or sophomore level course work may include preliminary history or survey-type courses or intermediate skill development. Although there is no clear distinction made between lower division courses listed at the 100 or 200 level, there is an inherent assumption that students in the second year of study have acquired preliminary skills appropriate to university level work.
- 300-399 Third year or junior level course work is likely to emphasize specialization for majors in their disciplines. Work at this level is expected to be more challenging than lower division work. Usually, specific prerequisites are used to indicate the necessary competencies required for study at this level. The "core" courses of many disciplines are offered at this level and provide the prerequisites necessary to senior level study. Many disciplines use 300 level courses to focus on areas of specialty or emphasis within the disciplines. These courses do not give graduate credit unless included on an approved graduate study plan for a specific graduate student.



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5. Neither lower- nor upper-division courses applied to general

gy shall be included in the student's study plan. Where appear

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- 400-499 Fourth year or senior level course work is intended to provide depth of understanding or special focus appropriate to majors and generally requires prerequisite work. The student is expected to be able to theorize and/or practice at a professional level of competence. Students enrolled in 400 level course work are assumed to have advanced skills in writing proficiency. Courses at the 400 level are sufficiently sophisticated for inclusion on graduate study plans.
- 500-599 Fifth year university study is for graduate students who are enrolled in advanced degree programs. The courses of study are advanced and specialized in nature and require substantial undergraduate preparation. Independent initiative is expected in the theoretical, practical, critical, and analytical exploration of specialized topics. An essential feature of graduate study is the facilitation of independent decision-making, invention of theoretical constructs, application of research processes, and the development of original creations.
- 700-701 Course numbers for graduate and postbaccalaureate students (including those seeking a credential) to maintain continuous enrollment during a particular semester, and who are not enrolled in regular courses. These numbers do not represent courses and do not therefore grant credit.
- 900-999 Courses are specifically designed for professional groups seeking vocational improvement or career advancement. Credit for these courses does not apply to undergraduate or graduate degrees or credentials at the unisecond versity. The major and Automore the analytimes of survey and

An honors course shall use the letter H. A laboratory course which accompanies another course should use the letter L.

A controlled entry course is one which has enrollment requirements in addition to any prerequisite courses. Additional requirements include prior approval of the instructor, special academic advisement, a qualifying exam, a placement test, an audition, a teaching credential, or similar special qualifications.

Special Course Numbers

For uniformity, certain types of courses have been listed by all departments and schools with the same numbers: 499 and 599 are used respectively for undergraduate and graduate "independent study"; 196 or 496 for "student-to-student tutorials"; 597 for a graduate "project"; and 598 for a graduate "thesis."

Explanation of Course Notations

Certain notations are uniformly used in the course descriptions in this catalog.

- 1. The figure in parentheses following the course title indicates the number of semester units for the course. Courses offered for varying units are indicated as (1-3) or (3-6).
- 2. A course listing such as Afro-Ethnic Studies 108 (3) (Same as Linguistics 108) indicates that a student taking the course may choose to count it in either of those two disciplines.
- 3. A notation such as (Formerly 433) following the course title and the number of units indicates the same course previously was numbered 433.

Student-to-Student Tutorials

The "student-to-student tutorial" provides a formal way to encourage students to learn through teaching. It also provides tutoring to all students who need and want tutorial assistance.

Cross-Disciplinary University

In those departments which choose to offer such courses, the courses are numbered 196 or 496 and carry one to three units of credit. The prerequisites include a grade-point average of at least 3.0 and/or consent of the instructor. The tutor and his/her tutee or tutees will work in mutually advantageous ways by allowing all involved to delve more carefully and thoroughly into the materials presented in this specific course. One to three students may be tutored by the tutor unless the instructor decides that special circumstances warrant increasing the usual maximum of three tutees. Three hours of work per week are expected for each semester unit of credit, and this work may include, apart from contact hours with tutees, such other activities as: tutorial preparations; consulting with instructors; reporting, analysis and evaluation of the tutorial experiences; and participation in an alluniversity orientation and evaluation program for tutors. A maximum of three units may be taken each semester. No more than three units of any combination of tutorial courses (196 or 496) may count toward an undergraduate degree program. The course must be taken as an elective and not counted toward general education, major or minor requirements. The course can be taken on a credit/no credit basis by the tutor. Requests for tutors must be initiated by tutees and can be initiated up until the official university census date. Tutors electing to respond to such requests will receive credits at the end of the semester and can register in the course until the official university census date. Both tutors and tutees must submit written reports, analyses and evaluations of their shared tutorial experience to the instructor, and both must participate in an all-university orientation program as well as in any conference or critique that the instructor of the course may require.

Further information can be obtained from the department in which the student is interested in a "student-to-student tutorial."

Independent Study

Under the independent study program, the student may pursue topics or problems of special interest beyond the scope of a regular course under the supervision of a faculty adviser. The work is of a research or creative nature, and normally culminates in a paper, project, comprehensive examination, or performance. Before registering, the student must get his topic approved by the instructor who will be supervising independent study and by the department chair.

A student may take no more than six units of independent study at the undergraduate level (299 and 499 numbered courses) in a given semester. No more than nine units of independent study may be applied toward completion of the baccalaureate degree. A graduate student may apply no more than six units of independent study (499 or 599 numbered courses) toward completion of master's degree, unless written approval is obtained from the appropriate school dean.

Cross-Disciplinary University Programs

A joint degree program is an endeavor involving two or more existing academic departments which need not be within the same school. Such programs are administered by program councils composed of representatives elected by participating departments. The joint degree programs are housed in administration units as follows:

School of Human Development and Community Service

Child Development, B.S.
Human Services, B.S.

Further information can be obtained from the department in which the student is interested in a "student-to-student rutorial."

School of Humanities and Social Sciences

Environmental Studies, M.S. Latin American Studies, B.A.
Liberal Studies, B.A.
Russian and East European Area Studies, B.A.
Social Sciences, M.A.

The degree descriptions are located within the appropriate school section of this catalog.

Bilingual/Cross-Cultural Studies

Students may pursue a course of study with a bilingual/ cross-cultural emphasis.

Complete course listings and details are available from the Department of Foreign Languages and Literatures, the Department of Chicano Studies, Division of Teacher Education and Educational Opportunity Program advisers.

Library Courses

201 Introduction to Library Resources (1)

A practical introduction to library materials and methods enabling undergraduate students to locate information for courserelated, as well as independent study and research.

200 Elements of Bibliographic Investigation (3)

A survey of important information sources in various subject fields and the application of research methods which will enable students to become effective library users. Particular attention is given to the assembling of material for term papers and reports, including the preparation of bibliographies.

302 Library Research Methods for Specific Majors (1)

Library research methodology and introduction to library resources in special subject areas such as business, education and science.

Special Course Numbers

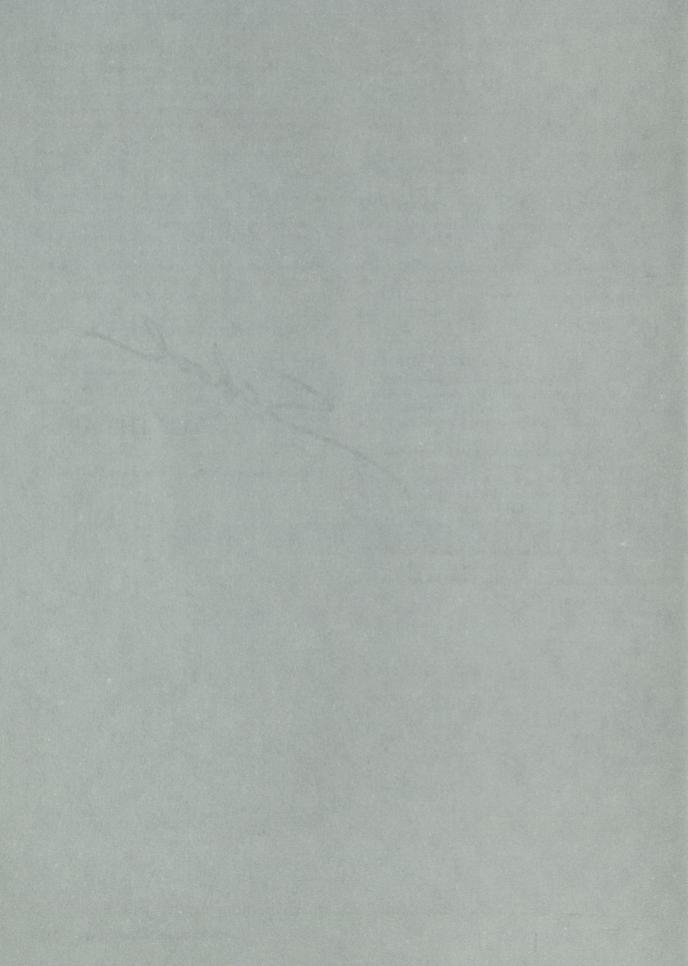
For uniformity, certain types of courses have been listed by all departments and schools with the same numbers: 459 and 599 are used respectively for undergraduate and graduate "independent study"; 196 or 496 for "student-to-student tutorials", 397 for a graduate "project"; and 598 for a graduate "thesis."

Explanation of Course Notations

ertain notations are uniformly used in the counc descriptions in

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School OF THE ARTS



School of the Arts



Dean: Jerry Samuelson Associate Dean: Frank Cummings III

The learning opportunities within the School of the Arts are based on a commitment to artistic and academic excellence. We provide an environment which encourages individual achievement for performers, artists and scholars.

Within the broader university liberal arts environment, the School of the Arts offers intensive programs in Art, Music, Theatre and Dance. We are also committed to the enhancement of artistic awareness of all students.

We extend a warm welcome to you and we promise that with your perseverance, we will do everything possible to further your goals and objectives in whatever field of the arts you choose.

Academic Advisement is available through the departments. Faculty advisors are available to assist students with career decisions and degree requirements.

Several scholarships are available to students in the School of the Arts. Inquiries should be made to the respective department offices.

Programs Offered

Art, Bachelor of Arts

Art History General Studio Art Teaching

Art, Bachelor of Fine Arts

Drawing and Painting Printmaking Management of the Control of the Contro Sculpture Crafts Ceramics Graphic Design Illustration Environmental Design Creative Photography

Minor in Art

Art, Master of Arts

Drawing and Painting (including Printmaking) Sculpture Crafts (including Ceramics, Glass, Fibers, Wood, Jewelry/Metalsmithing). Design (including Environmental Design, Graphic Design, Illustration, Exhibition Design, Creative Photography). Art History

Art, Master of Fine Arts

Drawing, Painting and Printmaking Sculpture Ceramics (including Glass) Crafts (including Fibers, Jewelry/Metalsmithing, and Woodworking/Furniture) Design (including Graphic Design, Illustration, Environmental Design, and Exhibition Design) Creative Photography

Certificate in Museum Studies

Music, Bachelor of Arts

Liberal Arts Music Education Music History and Theory

Music, Bachelor of Music

Commercial Music Composition Instrumental Keyboard Voice Accompanying

Minor in Music

Music, Master of Arts

Music History and Literature Music Education

Music, Master of Music

Performance Theory-Composition

Theatre Arts, Bachelor of Arts

History and Theory Production/Performance Acting Directing Musical Theatre Oral Interpretation Playwriting Technical Production/Design Television Dance Teaching

Theatre Arts, Master of Arts

Theatre Arts, Master of Fine Arts

Acting Directing Technical Theatre and Design



Department of Art

Department Chair: Darryl J. Curran Department Office: Visual Arts 102

Programs Offered Bachelor of Arts in Art

Curricular plans for the Bachelor of Arts and the Art History
General Studio Art

Bachelor of Fine Arts in Art

Drawing and Painting Graphic Design Printmaking and the add to Illustration and at vilande and Sculpture Environmental Design Crafts Creative Photography Ceramics

Minor in Art

Market of Arts in Art

Master of Arts in Art

Drawing and Painting (including Printmaking) Sculpture seesan allula bine agbalword aids golevab or (A) Crafts (including Ceramics, Glass, Fibers, Wood, Jewelry/Metalsmithing) for ambressed and addition (2) Design (including Environmental Design, Graphic Design, Illustration, Exhibition Design, Creative Photography) BACHELOR OF ARTS IN ART

Master of Fine Arts in Art of an Ale saled and all and I

Art History

Drawing, Painting, and Printmaking objectives are to provide correlational ideas. Sculpture Ceramics (including Glass) Crafts (including Fibers, Jewelry/Metalsmithing, and

Woodworking/Furniture) Design (including Graphic Design, Illustration,

Environmental Design, and Exhibition Design) Creative Photography

Certificate in Museum Studies and a plant language of T

Faculty

Ruth Capelle, John Carter, Al Ching, Kyung S. Cho, Dorte Christjansen, Eileen Cowin, Frank E. Cummings III, Darryl Curran, Robert Ewing, Dextra Frankel, Maurice Gray, Raymond Hein, Thomas Holste, George James, Jim Jenkins, Lawrence Johnson, G. Ray Kerciu, Garland Kirkpatrick, Donald Lagerberg, Dana Lamb, Sergio Lizarraga, Clinton MacKenzie, Ronald Raetzman, Leo Robinson, Jerry Rothman, Jerry Samuelson, V. Joachim Smith, Jon Stokesbary, Vincent Suez, Kim Yasuda

pass the university a beautingtion in Witting Profice achieving purior standing (of units). Jesting darks Undergraduate: Contact department office. Graduate: Al Ching

INTRODUCTION

The Department of Art offers programs which include the scholarly fields of art history, theory, analysis and criticism; the studio fields of drawing and painting, printmaking, sculpture, crafts (including fibers, jewelry, wood and metal), ceramics (including glass), graphic design, creative photography, illustration, environmental design, and exhibition design; and the single subject teaching field of art education.

Curricular plans for the Bachelor of Arts and the Bachelor of Fine Arts have been developed to meet the individual needs and interests of students in art.

The general objectives of the programs are to provide a comprehensive learning environment which contributes technically and conceptually to the development of the art historian, the visual artist and the art teacher. Specifically, the programs provide opportunities for students to: (1) develop a knowledge and understanding of fundamental visual experience and concepts basic to many forms and fields of art; (2) develop a critical appreciation of historical and contemporary art forms as they relate to individual and social needs and values; (3) express creatively one's personal experience and thought with skill and clarity in visual terms; and (4) to develop this knowledge and skills necessary to pursue graduate studies in visual arts, or to teach art in the schools, and (5) develop the understanding and advanced specialized skills applicable to professional practice.

BACHELOR OF ARTS IN ART

The 124-unit Bachelor of Arts degree offers concentrations in Art History, General Studio Art, and Teaching. The program objectives are to provide correlative experiences, information and theory.

The Art History concentration provides for an emphasis in the area of art history, theory, and appreciation and is particularly recommended for those students who wish to pursue graduate studies in art history or museum studies.

The General Studio Art concentration is a general curriculum that provides a broad education in the visual arts.

The Teaching concentration is for students who wish to meet the requirements for single subject instruction (Ryan Act) for teaching art in grades K-12.

In addition to the requirements listed below for the major, students must meet the other university requirements for a bachelor of arts degree. Students in the Teaching concentration must also meet specific requirements for the desired teaching credential.

All art majors must take Art 300, Writing in the Visual Arts, and pass the university's Examination in Writing Proficiency (EWP) after achieving junior standing (60 units). Testing dates for the EWP are available from the Testing Center or the Academic Advisement Center.

To qualify for a bachelor of Arts in Art students must earn grades of C or better in all art courses required for the degree.

Art History Concentration

Art 201A,B Art and Civilization	6
Lower division studio courses	6
Approved electives in art, American studies, anthro-	
pology, history, literature, music, philosophy or theatre	9
The major (upper division — 33 units)	
300 Writing in the Visual Arts	3

481 Seminar in Art History 3

Preparation for the major (lower division — 21 units)

General Studio Art Concentration

Lower Div	vision (27 units)
103	Two-Dimensional Design 3
104	Three-Dimensional Design
107A	A,B Beginning Drawing and Painting 6
117	Life Drawing 3
201A	A,B Art and Civilization 6
Art I	Electives — Select at least two courses from two of

the following areas: design; printmaking; creative

Art History
Studio area — include one course from each of the
following: (1) drawing and painting; (2) sculpture,
creative photography, printmaking; (3) crafts and
ceramics; (4) design
Fl Cl

12

Teaching Concentration

Single Subject Instruction — Ryan Act (Qualifies for Teaching Art in Grades K-12)

Preparation for the major (lower division — 30 units)

104	Three-Dimensional Design
106A	Beginning Ceramics
107A,	B Beginning Drawing and Painting
117	Life Drawing
201A,	B Art and Civilization
205A	Beginning Crafts
	Drawing/Painting

Major requirements (upper division — 24 units)
Select either Drawing/Painting or Crafts Emphasis:
Drawing and Painting Emphasis:
300 Writing in the Visual Arts
307A,B Drawing and Painting
310A Watercolor
317A Life Studies, Drawing and Painting A.A 3
347A Printmaking-Etching
312 Modern Art3
441A Media Exploration for Teaching Art 3
Crafts Emphasis: Design . onugluo 8. Ao18
300 Writing in the Visual Arts
305A Advanced Crafts 3
306A,B Advanced Ceramics
310A Watercolor
312 Modern Art
312 Modern Art
441A Media Exploration for Teaching Art
Professional Preparation (24-27 units)
Art Ed 442 Teaching Art in the Secondary
School 3
Education course work 9-12
Student teaching (one semester full-time) 12
Student teaching (one semester full-time) 12

Program Requirements:

- Be advised by a faculty adviser in art education assigned by the art department chair.
- 2. Fulfill credential requirements listed in the catalog within the School of Human Development and Community Service for the Ryan Act curriculum.
- 3. Meet the requirements listed under the Teaching concentration.
- Complete the major requirements prior to enrolling in the teacher education program.
- 5. Be admitted to teacher education through the School of Human Development and Community Service prior to enrollment in Art Ed 442, professional education courses and student teaching.
- Be accepted for teacher education and student teaching based on candidate quotas, portfolio review, and evidence of success in completed university course work.
- 7. Be recommended by the faculty adviser in art education.
- 8. Complete Secondary Education 310 and 386 or equivalents.
- 9. Pass C-BEST exam prior to admission to Teacher Education.
- 10. Have a G.P.A. of 2.89 overall, 3.0 in major.

Credential Information

Upon completion of the above program and the bachelor of arts degree, the student is eligible for a partial credential, which meets state requirements for teaching art in grades K-12. Within the specified period of time from the beginning of a teaching assignment, 30 units of course work must be completed at an accredited college or university to qualify for a clear credential. Credentials are issued from the institution where this requirement has been completed.

Multiple Subject Instruction — Ryan Act

The following three courses are recommended for all students intending to teach in the elementary schools in multiple subject classrooms.

Art 380 Art and Child Development (3)
Music 333 Music and Child Development (3)
Theatre 402 Dramatic Activities for Children (3)

The following additional list of courses would be strongly recommended for students who wish to expand their knowledge in any or all of the arts:

Art 100, 101, 103, 104, 106A, 107A, 201A,B, 310A,B, 330, 380, 441A,B

Dance 101, 112, 122, 132, 142, 323A,B, 422

Music 111A,B, 184A,B, 251, 281B,P,S,W, 283, 381

Theatre 100, 263, 276A, 277, 370A,B, 402A,B, 403A,B

BACHELOR OF FINE ARTS IN ART

The Bachelor of Fine Arts degree is a professional program providing directed studies in nine studio concentrations within the visual arts. The program is designed for students seeking in-depth preparation for specialized goals selected from one of the following areas: drawing and painting; printmaking; sculpture; crafts; ceramics; graphic design; illustration; environmental design; or creative photography.

The program develops the understanding and advanced specialized skills applicable to professional practice, and to meet entrance requirements to graduate school.

Admission Requirements

All freshman students must apply to the B.A. (Bachelor of Arts) in Art program for their first semester of residence. After completing a minimum of 12 lower-division preparation units with B or better grades, students may contact the Art Department to change their objective to the B.F.A. in Art program.

Students who transfer from community colleges or other universities may apply to the BFA, providing they qualify. To qualify, they must have completed 12 units of studio art courses with B or better grades.

The 132-unit Bachelor of Fine Arts degree program requires a minimum of 70 units in art, with 28 lower-division units of preparation and 42 upper-division units, including 24 units in an area of concentration, six units of art history, three units of writing in art, and nine units of art electives. In addition to the	Units
minimum 70 unit requirement for the B.F.A. degree, students must meet the other university requirements for a bachelor's degree (see the university Catalog and Class Schedule). 201A,B Art and Civilization	3 ag 6
To qualify for a bachelor of Fine Arts in Art, students must earn	Units
To qualify for a bachelor of Fine Arts in Art, students must earn grades of C or better in all art courses required for the degree. 300 Writing in the Visual Arts	6
Drawing and Painting Concentration 317A,B Life Studies, Drawing and Paint 326A Coronic Sculpture	
Preparation (lower division — 28 units) 28 Units 326A Ceramic Sculpture	
103 Two-Dimensional Design	
207A,B Drawing and Painting	Units
Concentration (upper division — 42 units) 300 Writing in the Visual Arts* 307A,B Drawing and Painting 317A,B Life Studies, Drawing and Painting 487A Special Studies, Painting 487B Special Studies, Life Drawing 300 Writing in the Visual Arts* 3017A,B Beginning Drawing and Painting 487B Special Studies, Painting 301A,B Art and Civilization 301A,B Art and Civilization 301A,B Beginning Crafts 301A,B Art and Civilization 301A,B Beginning Crafts 301A,B Beginning Crafts 487B Special Studies, Life Drawing 301A,B Beginning Crafts 487A,B and/or C 487A,B and/or C 501A	3 ag 6
Opper-division art history	
305A,B Advanced Crafts	6
Select 9 units from:	9
Propagation (Joseph dissipant) Unite 315A B. Jamales	
104 Three-Dimensional Design	Dyeing
107A,B Beginning Drawing and Painting	exhibition
117 Life Drawing 4	S. Re admirrad
201A,B Art and Civilization	
247 Beginning Printmaking	
Concentration (upper division — 42 units) Units Concentration	
200 W 1 W 1 A .	
307A Drawing and Painting 3 Preparation (lower division — 28 units)	
317A, B or C Life Studies	F. Petermore
338A Creative Photography	& Complete Se
487D Special Studies, Printmaking 6 107A, B Beginning Drawing and Painting	ıg 6
Upper-division art history 6 117 Life Drawing	4
Upper-division art electives	······································

Concentration (upper division — 42 units) Units 300 Writing in the Visual Arts* 3 306A,B Advanced Ceramics 6 326A,B Ceramic Sculpture 6 424A,B Glass Forming 6 484A or 484B Special Studies 6 Upper-division art history 6 Upper-division art electives 9 Graphic Design Concentration 9	123B Descriptive Drawing 3 201A,B Art and Civilization 6 213A,B Beginning Environmental Design 6 Concentration (upper division — 42 units) Units 300 Writing in the Visual Arts* 3 313A,B Environmental Design 6 333A,B Environmental Design 6 453A Exhibition Design 3
Preparation (lower division — 28 units) Units	483B Special Studies, Environmental Design 6
103 Two-Dimensional Design 3 104 Three-Dimensional Design 3 107A,B Beginning Drawing and Painting 6 117 Life Drawing 4 201A,B Art and Civilization 6	495 Internship in Art
223A,B Lettering, Typography & Rendering 6	Preparation (lower division — 28 units) Units
Concentration (upper division — 42 units) Units 300 Writing in the Visual Arts* 3 323A,B Graphic Design 6 338A Creative Photography 3 363A,B Illustration 6 483A Special Studies, Graphic Design 6 495 Internship 3 Upper-division art history 6 Upper-division art electives 9	103 Two-Dimensional Design 3 104 Three-Dimensional Design 3 107A,B Beginning Drawing and Painting 6 117 Life Drawing 4 238 Photo Visual Concepts 3 201A,B Art and Civilization 6 Art Elective: Select from 123A, 247 or 216A 3 Concentration (upper division — 42 units) Units
Theory, analysis or criticism on the records are when the contract of the cont	300 Writing in the Visual Arts*
Preparation (lower division — 28 units) 103 Two-Dimensional Design	317A Life Studies, Drawing and Painting
Concentration (upper division — 42 units) Units	MINOR IN ART
300 Writing in the Visual Arts* 3 317A,B Life Studies, Drawing and Painting 6 323A Graphic Design 3 363A,B Illustration 6 483C Special Studies, Illustration 6 495 Internship 3 Upper-division art history 6 Upper-division art electives 9	Twenty-four units are required for a minor in art; a minimum of 12 units are to be in upper division courses and in residence. A basic course in each of the following areas is required: (1) art history, theory, analysis and criticism; (2) design; (3) drawing and painting; and (4) crafts. Recommended courses to meet the "basic courses" requirement are: (1) Art 201A or B; (2) Art 103 or 104; (3) Art 107A or B; (4) Art 106A or 205A. Completion of these courses will provide an adequate foundation for entry into upper division courses. Those students planning to qualify for a
Environmental Design Concentration	standard teaching credential with specialization in elementary or
Preparation (lower division — 28 units) Units	secondary teaching and art for a minor must obtain approval from the Art Department for the courses selected to meet the upper
103 Two-Dimensional Design	division requirements for a minor in art.
104 Three-Dimensional Design	*Students must also take and pass the Examination in Writing Proficiency (EWP).

MASTER OF ARTS IN ART

This program provides a balance of study and practice for those who wish a career in the visual arts, or who want to prepare for further graduate work in the field. The program offers the following areas of concentration: (1) drawing and painting (including printmaking); (2) sculpture; (3) crafts (including ceramics, wood, glass, fibers, jewelry/metalsmithing); (4) design (including environmental design, graphic design, illustration, exhibition design, or creative photography); and (5) art history.

Admission Requirements

- 1. Conditionally classified standing: longs-division art history . . .
 - a. A baccalaureate degree in art from an accredited institution, or 24 upper division units in art of which 12 units must be in a concentration completed with grades of B or
 - GPA minimum of 2.5 in the last 60 semester units attempted. Three Champanic Country to
 - (1) Studio program: satisfactory review of preliminary portfolio by a faculty member in the area of studio concentration. The probability of the pa S. A. O.S.
 - (2) Art history program: satisfactory preliminary interview by a faculty member in art history.
 - d. Enrollment is allowed in graduate-level courses with the exception of Art 500A, B; 511; 512; 597; and 598.
 - e. Passing the comprehensive review will be required for classified standing. 489 Secretal Studies, Creative Photo

Upper-division art electives

2. Classified standing:

The same requirements as conditionally classified plus:

- Pass comprehensive review: held semi-annually, the comprehensive review is an evaluation of the candidate by a committee comprised of faculty teaching in the area of concentration. The committee reviews the student's creative work, statement of purpose, academic and other relevant qualifications; assigned research papers are required of art history applicants in lieu of a portfolio. Procedures, dates, and appointment times are available through the art department graduate office.
- Form a graduate committee.
- Development of an approved study plan.
- Art history program: reading knowledge of a foreign language may be required before advancement to candidacy.

Concentration (upper division — 42 units)

The degree program requires 30 units of graduate study approved by the student's graduate committee of which 15 must be 500level courses. The 30 units are distributed as follows:

strill 84A or 484B Special Studies . garage AAB Units

- 1. Core courses in art history, philosophy, analysis and
 - Studio program: (since 85 noision region) noisio

Art 500A Graduate Seminar in Major Field (3 units)

Art history program:

Art 511 Seminar on the Content and Method of Art History (3 units) (ADMISSION WITH CLASSIFIED STANDING ONLY)

b. Studio Program:

Art 500B Graduate Seminar in Major Field (3 units) 23A, B. Graphic Design & :margorq protein

Art 512 Seminar on Selected Topics in Art History (3 units) (ADMISSION WITH CLASSIFIED STANDING ONLY)

- c. Art 481 Seminar in Art History (3 units), or substitute of a 400-level course in art history, theory, analysis or criticism on the recommendation of the major adviser.
- 500-and/or 400-level courses in the area of concentration selected from one of the following (minimum of
 - a. Drawing and painting (including printmaking)

201A, B. Arr and Civilization research. A. Acres ...

- Crafts (including ceramics, glass, fibers, wood, jewelry/metalsmithing) land and an annihW 000
- d. Design (including environmental design, graphic design, illustration, exhibition design, or creative photography)
- e. Art history worsin are history
- 3. Additional course work in the area of concentration or approved electives 3 or 6
- 4. Art 597 Project (for studio); or Art 598 Total Total Discuss and Patrick and Total

The M.A. study plan must be completed with a B average, and all courses in the area of concentration be completed with grades of B or better. Every graduate student is required to demonstrate writing ability commensurate with the baccalaureate degree. Please refer to the section on Graduate Regulations for further clarification. The Department of Art requires the studio candidate for the Master of Arts in Art to exhibit the project in one of the department's graduate galleries prior to graduation. The art history candidate is required to submit a written thesis based on a specific topic of research.

For further information consult the graduate program adviser.

MASTER OF FINE ARTS IN ART

The Master of Fine Arts in Art features a rigorous studio program for the seriously committed, responsible and talented student. The curriculum and faculty challenge the students to focus on the goal of becoming professional artists.

The M.F.A. program provides in-depth study within a 60-unit approved study plan in the following areas of concentration: (1) design (including graphic design, illustration, environmental design, and exhibition design); (2) ceramics (including glass); (3) crafts (including fibers, jewelry/metalsmithing, and woodworking/furniture); (4) sculpture; (5) drawing, painting, and printmaking; and (6) creative photography.

Admission Requirements

- 1. Conditionally classified standing:
 - a. a baccalaureate degree in art from an accredited institution, or 24 upper division units in art, 18 of which must be in the concentration completed with grades of B or better.
- a minimum grade-point average of 2.5 in the last 60 units attempted and have been in good standing at the last college attended.
- c. participate in comprehensive portfolio review: held semiannually, the comprehensive portfolio review is an evaluation of the candidate by a committee comprised of faculty teaching in the area of concentration. The committee reviews the student's creative work, statement of purpose, academic and other relevant qualifications. Procedures, dates, and appointment times are available through the art department graduate office.

If the student's portfolio is not adequate, the applicant could still be recommended for conditionally classified standing by the faculty comprehensive review committee. However, the comprehensive portfolio review must be repeated.

d. Conditionally classified students may enroll in graduate courses with the exception of Art 500A,B; 511, 512, 597; and 598.

2. Classified standing: A STANDER MISTANDER 1883

The same requirements as a. and b. for conditionally classified standing plus:

- a. pass comprehensive portfolio review.
- b. form a graduate committee.
- c. develop an approved study plan.

Study Plan A.M. bas A.M. ses sizuriques regiseb notificidas

The M.F.A. degree program requires 60 units of graduate study approved by the student's graduate committee and the dean of graduate studies. The study plan must be completed with a gradepoint average of 3.0 or better. The courses in the concentration must be completed with a grade of "B" or better. The 60 unit study plan is distributed as follows:

Areas	Units
Theory, criticism: Art 500A, 500B	6
History	9
Area of concentration	24
Electives in art	12
Independent study: research	3
Project	6
Total	60

Master of Fine Arts Project

The M.F.A. project exhibition constitutes a professional oneperson art exhibit. It is installed in one of the department's graduate galleries and announced for public view by the student as the final phase of the M.F.A. program requirements.

The Department of Art is nationally accredited at the highest level of quality and professionalism (Division I) by the National Association of Schools of Art and Design. For further details on the comprehensive portfolio review, communicate with the graduate coordinator or graduate secretary in the art department, Visual Arts 102 (714/773-3471).

POSTBACCALAUREATE UNCLASSIFIED

Students who do not have the prerequisites to qualify for the graduate program may apply to the university as a postbaccalaureate-unclassified student. Typically, students in this category have a bachelor's degree in art but need to work on the prerequisites for a different concentration or did not major in art and must work on courses for the 24 upper division art units requirement. To qualify for admission an applicant must hold a baccalaureate degree from an accredited institution, have attained a gradepoint average of at least 2.5 in the last 60 units attempted and have been in good standing at the last college attended. Admission with postbaccalaureate standing does not constitute admission to the art graduate program or graduate degree curricula.

CERTIFICATE IN MUSEUM STUDIES

Courses leading to the certificate are designed to educate students in museum practices in preparation for entry into the museum profession. The curriculum includes instruction in the historical development and philosophical basis of collections, exhibitions and their design, and curatorship. A museum internship is required. The certificate in museum studies may be undertaken as a self-contained program or may be taken in conjunction with the Master of Arts in Art degree or the Master of Fine Arts in Art degree or, by special permission, with other graduate degrees in the university. (For an M.A. or M.F.A. in Art degree with an exhibition design emphasis see M.A. and M.F.A. emphases under the design concentration.)

Prerequisites

- 1. B.A. in Art or other major by special permission
- 2. Specific course prerequisites:
 - a. 12 units in upper-division art history
 - b. 6 units in graphic design and exhibition design
 - c. 3 units of advanced writing (Communications 435 Editorial and Critical Writing; or Communications 362 Public Relations Writing; or English 301 Advanced College Writing)
- d. 3 units of beginning accounting

Study Plan

The certificate program requires 24 units. The 24 units are distributed as follows:

	Units
	Museum Conservation
Art 481	Seminar in Art History 3
Art 483D	Exhibition Design 3
Art 495	Internship in Art
Art 501	Curatorship
Art 503D	Exhibition Design
Course in	museum education 3
	Total

For further information, consult the Department of Art.

Art Courses

100 Exploratory Course in Art (3)

Use of a variety of art materials, processes and concepts. Field trips required. Not open to art majors for credit except by permission of Art Department. (6 hours activity)

101 Introduction to Art (3)

Historical and contemporary art forms of painting, sculpture, architecture and design. Field trips required. Not open to art majors for credit except by permission of Art Department.

103 Two-dimensional Design (3)

Materials, concepts and elements of two-dimensional visual organization. (6 hours activity) (CAN ART 14)

104 Three-dimensional Design (3)

Materials, concepts and elements of three-dimensional visual organization. (6 hours activity)

106A Beginning Ceramics (3) THE HORST AM

Form as related to ceramic materials, tools, processes. Kiln loading and firing, hand building, wheel throwing and raku. Instructional fee required. (9 hours laboratory)

106B Beginning Ceramics (3)

Prerequisites: Art 106A. Form as related to ceramics. Glaze batching and its application, and the presentation of ceramic technique. Instructional fee required. (9 hours laboratory)

107A,B Beginning Drawing and Painting (3,3)

The traditional and contemporary use of drawing and painting materials integrated with visual experiences and concepts. 107A emphasizes drawing; 107B emphasizes painting. (6 hours activity) (107A = CAN ART 8, 107B = CAN ART 10)

117 Life Drawing (1)

The live model. May be repeated to a maximum of 4 units. Duplicate enrollment of this coures within the same semester is permissible. (3 hours activity for each unit)

123A Descriptive Drawing (3)

Descriptive drawing, rendering techniques and theories representing forms of nature. (6 hours activity)

123B Descriptive Drawing (3)

The use of linear perspective with lights and shadows to correctly describe fabricated and mechanical forms. (6 hours activity)

201A,B Art and Civilization (3,3)

The ideas, forms and styles of the visual arts as they developed in various cultures from prehistoric time to the present. (201A = CAN ART 2, 201B = CAN ART 4)

205A Beginning Crafts (3)

Traditional and contemporary concepts and processes with emphasis on design principles in the development of esthetic forms based on function. (9 hours laboratory)

205B Beginning Crafts (3)

Prerequisites: Art 103, 104 and 205A. Art 104 may be taken concurrently. The development of esthetic forms based on function, with emphasis on design principles and the creative use of hand tools and power equipment. (9 hours laboratory)

207A,B Drawing and Painting (Experimental Methods and Materials) (3,3)

Prerequisites: Art 117, 107A, B or equivalents. Traditional and contemporary methods and materials. (6 hours activity)

213A Beginning Environmental Design (3)

Prerequisites: Art 103 and 104. Design methodology and communication skills in the environmental design field. (6 hours expression. Historical and new processes. Field trips (viivitas

213B Interior Space Planning and Design (3)

Prerequisites: Art 103, 104; 213A or consent of instructor. The planning and organization of residential and commercial interior space. (6 hours activity)

216A,B Beginning Sculpture (3,3)

Prerequisite: Art 104. The creative use of wood and metal, power equipment and hand tools. Instructional fee required. (9 hours laboratory) (6 Notice activity) (8) notice result of a 8988

223A,B Lettering, Typography and Rendering (3,3)

Prerequisite: Art 103. The history, design and use of letter forms; techniques for rough and comprehensive layouts; the use of handlettered forms and handset type. (6 hours activity)

238 Photo Visual Concepts (3)

Prerequisite: Art 103. An Introductory photography course for art majors. Course content includes the study of photographic vision and design, visual conceptualization and examination of the qualities of light through the use of instant and automatic cameras.

247 Beginning Printmaking (3)

Prerequisite: Art 107A, B. An exploration of woodcut, linocut and monoprint as a medium of personal expression. Instructional fee required. (9 hours laboratory)

Prerequisites, Art. 103, 107A 300 Writing in the Visual Arts (3)

Principles, practices and objectives of writing in the visual arts. Includes descriptive, analytical and expressive essays; project and grant proposals; artist's statements; resumes; and professional correspondence. Satisfies the classroom portion of the upper-division writing requirements for art majors.

301 Ancient Art (3)

The developments in art from the Paleolithic to late antiquity.

project, administrations, specifications

302 Medieval Art (3)

The developments in art from the late antiquity through the Gothic.

303 Architectural and Interior Rendering (3)

Prerequisite: Art 123B or consent of instructor. Rendering of architectural, interior and landscape environments, utilizing mechanical perspective and contemporary design drawing delineation techniques. Mixed media. (6 hour activity)

305A,B Advanced Crafts (3,3)

Prerequisites: 205A and 205B. Advanced concepts and processes in the development of esthetic forms based on function, emphasizing individual growth and personal expression. (9 hours laboratory) repsional means at all less many applicants (violatodal

306A,B Advanced Ceramics (3,3)

Prerequisite: Art 103, 104 and 106A, B or consent of instructor. Forms and the creative use of ceramic concepts and materials; design, forming, glazing and firing. Instructional fee required. (9 hours laboratory)

307A,B Drawing and Painting (3,3)

Prerequisites: Art 107A,B, 117, 207A,B or equivalents. The concepts, materials and activities of drawing and painting, emphasizing individual growth, plan and craft. (6 hours activity)

310A,B Watercolor (3,3)

Prerequisite: Art 107A, B or equivalents. An exploration of watercolor media related to varied subject matter and design applications. Includes field trip activity. Provides skills and concepts useful for school art programs. (6 hours activity)

Prerequisite: upper division standing. Painting and sculpture from the French Revolution to the end of the 19th century.

312 Modern Art (3) supported bus in angupe viotatodal

Prerequisite: upper division standing. Painting, the graphic arts, & sculpture from late 19th century to World War II.

313A Environmental Design: Unit Concepts (3)

Prerequisites: Art 103, 104 and 213. Environmental design projects and the study of unit concepts. (6 hours activity)

313B Environmental Design: Systems Concepts (3)

Prerequisite: Art 313A. Environmental design projects and systems concepts. (6 hours activity)

335A,B Jewelry (3,3) (8) Pesign (3) AEEE

Prerequisites: Art 205A and 305A. Art 305A may be taken concurrently. Design and creation of jewelry. (9 hours lab)

316A,B Sculpture (3,3) profes a pleased landamentaria delete

Prerequisites: Art 104 and 216A. Sculptural materials and processes. Instructional fee required. (9 hours laboratory)

317 Life Studies (3)

Prerequisites: three units lower division life drawing. Drawing, painting and sculpture from the live model. (9 hours lab)

317A Drawing and Painting
317B Drawing and Painting

317C Sculpting

318A Drawing and Painting the Head and Hands (3)

Prerequisites: Art 107A,B and Art 117. Specialized problems in construction and anatomy of the human head and hands, and their principal use in drawing, painting and illustration. (9 hours laboratory)

318B Portraiture (3)

Prerequisites: Art 107A, 107B, 3 units of Art 117. Comprehensive problems in composition, concept, content and execution of portraits. or set incorporate a first grant for granting grant free re-

319 Landscape Painting (3)

Prerequisites: Art 107A and B. Contemporary concepts and techniques of painting the landscape.

320 History of Architecture Before the Modern Era (3)

A study of selected monuments from Stonehenge through the late Baroque. Interrelationship between patronage, style, function, structural principles and technological developments. Prerequisite: Art 107A; Bor equivalents: An

323A,B Graphic Design (3,3)

Prerequisites: Art 103, 223A and 223B or consent of instructor. Development and projection of ideas in relation to the technical, esthetic and psychological aspects of advertising art. Instructional fee required. (6 hours activity) of the application of 118

324 Beginning Glass Forming (3)

Prerequisites: Art 103 and 104 or consent of instructor. Hot glass laboratory equipment and techniques. Handling hot glass. Instructional fee required. (9 hours laboratory)

326A,B Ceramic Sculpture (3,3)

Prerequisites: Art 103, 104, 117 or consent of instructor. Development of ceramic technology into individual sculptural forms and techniques. Instructional fee required. (9 hours laboratory)

330 Fibers and Papers (3)

Prerequisites: Art 103 and 104, or consent of instructor. The use of fibers and papers as an art form. Instructional fee required. (9 hours laboratory)

333A Environmental Design (3) (E.E.) valswell 8. A218

Prerequisite: Art 313B. Materials and structural concepts as design determinants. (6 hours activity) has revised administration

333B Environmental Design (3)

Prerequisite: Art 333A. Change and growth as design determinants; experimental design concepts and methods. (6 hours activity)

336A,B Casting Techniques and Theories of Cast Sculpture

Prerequisite: Art 316A. Waxing, molding and metal casting techniques. Aluminum and bronze and the lost wax process. (9 hours laboratory)

338A Creative Photography (3) mining has paiwing E. ASOS

Prerequisite: Art 103 or its equivalent. The photographic media in personal expression. Historical attitudes and processes; new materials and contemporary esthetic trends. Field trips required. Instructional fee required. (9 hours laboratory)

338B Creative Photography (3) 11 Box 801 HA Restrictions 1919

Prerequisite: Art 338A. The photographic medium in personal expression. Historical and new processes. Field trips required. Instructional fee required. (9 hours laboratory)

213B Interior Space Planning and Design (3)

213A Beginning Environmental Design (3)

Prerequisites: Art 103, 104, 213 (6) nontration (3)

Prerequisites: Art 103 and 338. The use of specialized photographic techniques such as lighting, camera position, color and motion for solutions to illustration problems of narration, visual description, juxtaposition and imagery. Instructional fee re-Prerequisite: Art 104. The creative (voratory)

equipment and hand tools. Instructional fee required. (9 hours

339B Photo Illustration (3)
Prerequisites: 338A and 339A, or consent of instructor. Concepts and attitudes in the field of photo illustration. Illustration problems using narrative, visual description, juxtaposition and imagery. Instructional fee required to have deported soupled as

347A Printmaking Etching (3)

Prerequisites: Art 107A, B, 117, and 247. Concept development, exploration and materials involved in printmaking techniques. Includes etching, aquatint. Instructional fee required. (9 hours vision and design, visual conceptualization and exa (yrotarodal the qualities of light through the use of instant and automatic

347B Printmaking Lithography (3)

Prerequisites: Art 107A, B, 117, and 247. Concept development, exploration and materials involved in lithography. Instructional fee required. (9 hours laboratory) A. A. A. O. T.A. Estimperary and monoprint as a medium of personal expression. Instructional

Prerequisites: Art 103, 107A or 247, or consent of instructor. Personal vision and concepts applied to the book form as art; the history and aesthetics of artists' books.

353 Environmental Design Practice (3)

Prerequisites: Art 213, 313 and 333, or consent of instructor. Environmental design practice, including research techniques, project administration, specification writing, estimating, forms and documents, evaluation techniques and ethics. Areas of emphasis: interior design, architecture, landscape architecture.

355A,B Fibers: Fabric Printing and Dyeing (3,3)

Prerequisites: Art 103, 107A or B or consent of instructor. Design concepts and printing and dyeing processes as applied to fabrics. Instructional fee required. (9 hours laboratory) Prerequisite: Art 123B or consent

363A,B Illustration (3,3)

Prerequisites: Art 103, 107A, B and 117. Story, book, magazine, and film illustration. (6 hours activity)

364A,B Stained Glass (3,3)

Leaded and stained glass; individual exploration, growth, planning and craftsmanship. (6 hours activity)

485A Jewelry

365A,B Fibers: Weaving (3,3)

Prerequisites: Art 103 and 104 or 205A, B or consent of instructor. The use of the loom and weaving processes to design and create fiber and fabric art forms. Instructional fee required. (9 hours laboratory) (E) mutiputed at soilous laboratory 084

371 History and Theory of Design (3)

Prerequisites: Art 201A and B. The chronology of design in relation to the philosophical and theoretical ideologies which have, along with related socio-political and economic conditions, influenced its implementation and development.

380 Art and Child Development (3)

Art concepts, materials and processes as they relate to child development. (6 hours activity)

413 History of Contemporary Art (3)

Prerequisites: 312 and 461B or consent of instructor. A historical perspective of contemporary art beginning with major developments in Europe and the United States in the 1950's. Emphasis on new materials, new exhibition methods, and in particular the major conceptual issues raised by individual artists and groups.

420 History of Modern Architecture (3)

Prerequisite: Art 201B (art majors) or Art 101 (non-art majors). Development of modern architecture. The interrelationship among architecture, technology and society, from the industrial and political revolutions of the 18th century to the present. Exploration of national differences and various approaches to city planning.

424A,B Glass Forming (3,3) Prerequisites: Art 103, 104, 324 or consent of instructor. The chemistry, handling and manipulation of glass and its tools and equipment for the ceramic artist. Instructional fee required. (9 hours laboratory) Prerequisite: consent of instructor. (E) and all hideogonals ERM

431 Renaissance Art (3)

Prerequisite: Art 201B (art majors) or Art 101 (non-art majors). Painting, sculpture and architecture from the late 13th to 16th century in Italy, roblems in (7-4) ideas and implemental 1994

432 Baroque Art (3)
Painting, sculpture and architecture of the 17th century in Europe. Jow. Maximum of 12 units the each page that no more to

438A,B Creative Color Photography (3,3)

Prerequisites: Art 338A, B. Concepts and techniques in creative color photography. Historical attitudes and contemporary trends. Personal involvement with the medium. Instructional fee required. Instructional fee required. (9 hours laboratory)

441A,B Media Exploration for Teaching Art (3,3)

Prerequisites: Art 103, 104, 107A, B, 205A or consent of instructor. Exploring the art media used in secondary school art programs today. Materials for secondary art curriculum. Two and three dimensional media in subject matter applications. (6 hours activity) the manufacturing the following activity and the first the following the first the fir

443 Studio Graphics (3)

Prerequisites: Art 223A, B and 323A, B. Admission by interview and portfolio review. Studio production of graphics for the School of the Arts, including printed mailers, posters, booklets, catalogs, advertisements. Students experience designer/client relationships and translate concepts into production. (9 hours activity) May be repeated once for credit.

448 Special Studies: Artists' Books and Art (3)

Prerequisites: Art 102, 107A, or 347Ax/348 or consent of instructor. A studio art course for advanced students who want to continue to explore the book form as it relates to their personal aesthetic goals.

453A,B Exhibition Design (3,3)

Technical and esthetic experience in problem-solving exhibition design concepts, evaluation and design analysis. The production of exhibitions in the University Art Gallery, their selection, design, installation, lighting and supportive interpretive material. (More than 9 hours laboratory) Pretequence, applement in true on. Maximum of 12 units, but 10

460B Pre-Columbian Art (3)
Prerequisites: Art 201A, B or consent of instructor. An introduction to the art and architecture of Meso and South America from the early formative stage to the Spanish Conquest. Emphasis on esthetic achievement with varying contexts of pre-Columbian 483E Computer Assisted Oraphiss (1) 1521 [Computer Assisted Oraphis (1) 1521 [Computer Ass

461A American Art: Colonial Period to 1900 (3)

The historical development of painting and sculpture in America from the Colonial Period until 1900. The role of the visual arts in helping to define, reflect and challenge American values and 484 Special Studies in Cresunics (3),000 mi galaccourt 3044 institutions.

461B American Art: 20th Century (3)

Painting and sculpture in America during the 20th century. The role of the visual arts in helping to define, reflect and challenge American values and institutions. For candidates who have declared for the grain of said #184

464 Museum Conservation (3)

Prerequisite: Art 453A, six units of art history or anthropology. The examination of the preservation of objects; the history, role and principles of conservation within a museum context. Three combined sessions at Conservation Center, LACMA; Huntington Library; J. Paul Getty Museum; and Museum of Cultural History, UCLA.

470 History and Esthetics of Photography (3)

Prerequisites: 201A, B. Photography from ancient optical observations through 19th-century invention to 20th-century acceptan

470 History and Esthetics of Photography (3)

Prerequisites: 201A, B. Photography from ancient optical observations through 19th-century invention to 20th-century acceptance as an art form. Esthetic movement and influential innovators. Lectures, slides and class discussion.

475 Professional Practices in the Arts (3) (Formerly 375)

Prerequisite: Art major with junior or above standing. Practices unique to the visual arts, including an overview of changing concepts in the art market, traditional roles in cultural context, portfolio development, strategies for protecting ideas and avoiding abuses, and long term professional development.

480 Selected Topics in Art History (3)

Prerequisites: Art 201A or B and consent of instructor. Detailed study of the work of individual artists, patronage in particular places, specific pictorial, sculptural and architectural programs or art history periods. Topics will be listed in the class schedule.

481 Seminar in Art History (3)

Prerequisite: consent of instructor. Study and evaluation in one area of art history and appreciation. May be repeated up to a maximum of 6 units. Dan A consequently and an analysis to

483 Special Studies in Design (3)

Prerequisite: consent of instructor. Maximum of 12 units, but no more than 3 units in any one area in a single semester.

483A Graphic Design (6 hours activity)

483B Environmental Design (6 hours activity)

483C Illustrations (6 hours activity)

483D Exhibition Design (More than 9 hours laboratory)

483E Computer Assisted Graphics (3)

Prerequisites: Art 313A or Art 323A or Art 363A and consent of instructor. Theory and practice of design using the computer. Students will explore the numerous applications of the computer through lecture demonstration, studio/laboratory experience, guest speakers and field trips. Maximum of 12 units.

484 Special Studies in Ceramics (3)

Prerequisite: a minimum of six upper-division units in ceramics. Maximum of 12 units, but no more than three units in any one area in a single semester. Instructional fee required. (9 hours laboratory) 484A Ceramics

484B Glass Forming

484C Glass Casting

485 Special Studies in Crafts (3)

Prerequisite: a minimum of six upper-division units in designated area or consent of instructor. Maximum of 12 units, but no more than three units in any one area in a single semester. (9 hours laboratory)

485A Jewelry

485A Jewelry
485B General Crafts

485C Metalsmithing

485D Fibers — Weaving Instructional fee required.

485E Fibers - Fabric Printing and Dyeing Instructional fee

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485F Fibers and Fabrics Instructional fee required.

486 Special Studies in Sculpture (3)

Prerequisites: Art 316A,B and consent of instructor. Maximum of 12 units but no more than three units in a single semester. (9 hours laboratory) and self M Lan A102 mA sensingered

486A Modeling and Fabrication Instructional fee required. 486B Casting

487 Special Studies in Drawing and Painting and Printmaking (3)

Prerequisites: a minimum of six upper-division units in drawing and painting, and consent of instructor. Maximum of 12 units, but no more than three units in any one area in a single semester. 487A Painting (6 hours activity)

487B Life Drawing (9 hours laboratory)

487C Drawing (6 hours activity)

487D Printmaking Instructional fee required. (9 hours laboratory)

489 Special Studies in Creative Photography (3)

Prerequisite: Art 338A, B. Photography as personal expression. Maximum of 12 units but no more than three units in a single semester. Instructional fee required. (9 hours laboratory)

491 Professional Seminar (3) Guest speakers from professions in the visual arts. A lecture/ discussion seminar relevant to current issues and concepts in making and experiencing art. Topics will differ each semester. For the senior and graduate art major. May be repeated up to a maximum of 6 units.

495 Internship in Art (3)

Prerequisite: senior standing as a declared BFA in Art major. Work in a specific art field in business or industry.

499 Independent Research (1-3)

Open to advanced students in art with consent of department chair and written consent of instructor. May be repeated for credit.

celluly in Talk

500A Graduate Seminar in Major Field (3)

Prerequisite: classified standing. Problems and issues in art. Intellectual clarification and verbal articulation of individual intent as an artist. Oral and written material in support of the master's project. (with 500B meets graduate level writing requirement).

500B Graduate Seminar in Major Field (3)

Prerequisite: Art 500A. Directed research in the area of major emphasis. Oral and written material on historical backgrounds and developments in art as they relate to individual intent as an artist (stated in Art 500A) and in support of the master's project. (with 500A meets graduate level writing requirement)

501 Curatorship (3)

Prerequisites: B.A. in art, anthropology or other major by special permission, and Art 481 and 463. The curator collects, cares for and studies objects.

503 Graduate Problems in Design (3)

Prerequisite: consent of instructor. Planning, development and evaluation of individual projects listed below. Maximum of 12 units in each area, but no more than three units in any one area in a single semester.

503A Graphic Design (6 hours activity)

503B Environmental Design (6 hours activity)

503C Illustrations (6 hours activity)

503D Exhibition Design (More than 9 hours laboratory)

504 Graduate Problems in Ceramics (3)

Prerequisite: consent of instructor. Planning, development and evaluation of individual projects in ceramics, glass forming and glass casting. Maximum of 12 units in each area but no more than three units in a single semester. Instructional fee required. (9 hours laboratory)

504A Ceramics

504B Glass Forming

504C Glass Casting

505 Graduate Problems in Crafts (3)

Prerequisite: consent of instructor. Planning, development and evaluation of individual projects listed below. Maximum of 12 units in each area but no more than three units in a single semester. (9 hours laboratory)

505A Jewelry

505B General Crafts

505D Fibers Weaving, Fibers and Fabrics Instructional fee required.

506A,B Graduate Problems in Sculpture (3,3)

Prerequisite: consent of instructor. Planning, development and evaluation of individual projects in sculpture. Maximum of 12 units in each area but no more than three units in a single semester. Instructional fee required. (9 hours laboratory)

507 Graduate Problems in Drawing, Painting and Printmaking (3)

Prerequisite: 12 units of upper-division drawing and painting. Planning, development and evaluation of individual projects listed below. Maximum of 12 units in each area but no more than three units in a single semester.

507A Painting (6 hours activity)

507B Life Drawing (9 hours laboratory)

507C Drawing (6 hours activity)

507D Printmaking Instructional fee required. (9 hours laboratory)

508A,B Graduate Problems in Creative Photography (3,3)

Prerequisite: Consent of instructor. Planning, development and evaluation of individual projects in photography. Maximum of 12 units in each area, but no more than three units in a single semester. (9 hours laboratory)

511 Seminar on the Content & Method of Art History (3)

Prerequisite: Art 481. Methods of research, bibliography, and theories and philosophies of art historical scholarship. May be repeated up to a maximum of 6 units.

512 Seminar on Selected Topics in Art History (3)

Prerequisite: appropriate upper-division Art course approved by instructor and Art 511 or consent of instructor. Analysis and evaluation of specific historical significance including cultural, social and economic circumstances. May be repeated up to a maximum of 6 units.

597 Project (3 or 6)

Prerequisites: Art 500A,B, written consent of instructor and recommendation of the student's graduate committee. Art 500B may be taken concurrently with Art 597 on approval of instructor. Development and presentation of a creative project in the concentration beyond regularly offered coursework.

598 Thesis (3 or 6)

Prerequisites: Art 511, 512, written consent of instructor and recommendation of the student's graduate committee.

599 Independent Graduate Research (1-3)

Open to graduate students in art with consent of department chair and written consent of instructor. May be repeated for credit.

Art Education Courses

442 Teaching Art in the Secondary School (3)

Prerequisite: admission to teacher education. Objectives, methods and practices for teaching art in secondary schools. Required before student teaching of majors in art for the single subject teaching credential.

449E Externship in Secondary Teaching (3)

For candidates who have declared for the Ryan Act credential. See description and prerequisites under Division of Teacher Education. Offered every fall semester.

449I Internship in Secondary Teaching (10)

For candidates who have declared for the Ryan Act credential. See description and prerequisites under Division of Teacher Education. Concurrent enrollment in Art Education 449S required. Offered every spring semester.

449S Seminar in Secondary Teaching (2)

Seminar for student teachers in art. The practical aspects of art instruction in secondary schools. Concurrent enrollment in Art Education 449I required. Offered every spring semester.

Department of Music

Department Chair: Benton Minor
Vice Chair: Gordon Paine

Department Office: Performing Arts 262

Programs Offered

Bachelor of Arts in Music

Liberal Arts and the sales The poles to see my CLE Music Education

Music History and Theory

Bachelor of Music

Commercial Music Composition Instrumental Keyboard at the meaning of the ACCC transferred to

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Minor in Music 18650 6 to docture out bas to monte out to

Master of Arts in Music

Music History and Literature

Music Education

Master of Music

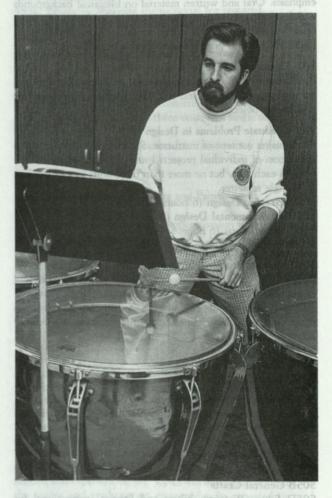
Performance (Call) days and a purposal probagation (Call) Theory-Composition

Single Subject (Secondary) Credential

Faculty

Charles Baker, Martha Baker, Marc Dickey, M'lou Dietzer, Mitchell Fennell, Rita Fuszek, Su Harmon, Carole Harrison, Nors Josephson, Burton Karson, Leo Kreter, Gary Maas, Todd Miller, Benton Minor, Gordon Paine, Jane Paul, William Reber, Lloyd Rodgers, Ernest Salem, Preston Stedman, Robert Stewart, David Thorsen, Laurance Timm, Rodger Vaughan, Robert Watson, Vance Wolverton, Mary Mark Zeyen

4491 Internable in Secondary Teaching (10) gameras A454



evaluarion of individual projects in sculptone Maximum of 17 units in each sees but no more than three distants it shelf

SOTE Life Drawing (V hours laboratory) in hours discovered \$07C Drawing to hours activity)

INTRODUCTION and drive stellar on all states

Music is one of the most rewarding of all human endeavors, and the faculty and students in the Department of Music share a deep love for their art and a common desire to achieve excellence in it. The department offers a wide spectrum of degree programs and options with an overall emphasis in the area of performance. The curriculum provides basic preparation for careers in music or further graduate study, and is designed to provide a balanced education in the many facets of musical experience. Artist-teachers offer instruction in all areas of performance, while practicing composers and theorists teach courses in theory, and active musicologists provide instruction in history and literature. It is the goal of the department to develop each student's musical and intellectual potential to the highest level of individual capability. The Department of Music is fully accredited by the National Association of Schools of Music, in addition to the overall university accreditation by the Western Association of Schools and Colleges.

Credential Information

The Department of Music offers course work leading to a CSUF Waiver Program in Music for the Ryan Single Subject Teaching Credential. For details, contact the Admission to Teacher Education Office and the coordinator of music education;

The Department of Music offers supplementary authorizations for the Ryan Single Subject Teaching Credential in Instrumental Music and in Vocal Music. A supplementary authorization in music is offered for the Rvan Multiple Subject Teaching Credential. For details contact the Office of Admission to Teacher Education.

ions. The baccalaureate degree may be carned in streamsivbA

All music majors are required to obtain advisement each semester. Area coordinators serve as advisers, and students are assigned according to their area of concentration.

Requirements of the Music Department

- 1. All entering music majors are enrolled in the Bachelor of Arts degree program for at least the first semester of residence. Students may request a change in their degree objective to the Bachelor of Music upon completion of at least one semester of course work at the university, successful completion of a jury examination and recommendation of the faculty in the appropriate area of concentration. Enrollment in the Bachelor of Music program is limited.
- 2. Upon entering the university as a new music major or upon officially changing to a major in music, each student will present an audition in the appropriate principal performance area (instrument or voice) and a placement audition for class piano.
- 3. All students must pass proficiency examinations in traditional harmony (sight-singing, dictation, keyboard and paperwork) and piano before being approved for graduation. Transfer stu-

dents will fulfill the theory requirement by passing the entrance examination in theory; first-time students and transfers with insufficient preparation at entrance will normally take the examination in Music 211. The piano-proficiency requirement may be met by completion of Music 282B with a passing grade. Students whose principal performance area is piano satisfy the piano proficiency requirement upon reaching 300 level in performance.

- 4. Each music major must declare a single principal performance area, which must be approved by the faculty of that area upon completion of the entrance audition. In order to be approved for graduation, each student must achieve at least the 300 level of proficiency in the principal performance area. B.A. Liberal Arts-option students who elect project option 2 (Music 497: Project) need reach only the 200 level.
- 5. Each music major is required to present one or more recitals or a project appropriate to the degree program before being approved for graduation. The project option is available only in the Liberal Arts and Music History and Theory options of the Bachelor of Arts degree. Recitals at the 300 level of performance are designated Music 398; recitals at the 400 level of performance are designated Music 498. See the sections below on the Liberal Arts and Music History and Theory options for recital/project information applicable to those degrees. The minimum being on a relief some some most
- 6. Undergraduate music majors are required to participate in a major performance ensemble (Music 361) and complete it with a passing grade each semester of residence as follows:
 - a. Students who declare wind or percussion as the principal performance area must register for band; students who declare a string instrument as principal performance area must register for orchestra; students who declare voice as the principal performance area must register for chorus. (Bachelor of Music students in voice who have reached the 400 level may elect to substitute 361D, Opera Theatre.) A student whose principal performance area is keyboard or classical guitar must register for one of the above major performance ensembles, according to the student's qualifications and subject to audition.
- b. A music major admitted into the Bachelor of Music program whose senior recital instrument is keyboard or classical guitar and who has participated in a major performance ensemble for at least five semesters (a minimum of two semesters at Cal State University Fullerton) may thereafter substitute chamber music and/or small performance ensembles (Mu 362, 363, 386) to satisfy the departmental major performance ensemble (Mu 361) requirement.

- The educational purpose of the requirement that all music majors participate in an appropriate major performance ensemble during each semester of residence is to permit each student to experience the highest level of ensemble music-making commensurate with the student's skill. To this end, the CSUF band/orchestra and choir programs are of the traditional graded structure. University Singers (361E), Wind Ensemble (361F) and Symphony Orchestra (361A) are for the more advanced students; University Choir (361B), Symphonic Band (361C) and Women's Choir (361W) are for students of less skill or experience. Placement in bands, orchestra and choirs will be based on student ability as determined by the directors of those ensembles. Music majors will be assigned to the ensemble for which they are best qualified. A student does not have the option of satisfying the requirements for participation in a major performance ensemble by enrolling in an ensemble intended for those of less ability or experi-
- Applied-music study in the principal performance area is required as stipulated under the requirements for each degree program. The following conditions apply:
 - a. If a student pursuing the Bachelor of Arts degree (Music History and Theory) or the Bachelor of Music degree (Composition) reaches the 300 level in the principal performance area before the required units in applied music are completed, Music Department electives may be substituted for the remaining applied music units.
 - b. In addition to the four units of applied music required in the principal performance area, Bachelor of Music students in the Composition option must complete six units of applied composition (including the 498 recital) after taking Music 422. The 498 recital will consist of a presentation of the student's own compositions.
 - c. Students pursuing the Bachelor of Music degree in any option except composition must achieve the 300 level in performance before giving the 398 recital and 400 level in performance before giving the 498 recital. Specific information on jury-level criteria is available from the Music Department office.
 - d. In order to register in applied music, an undergraduate student (with the exception of a student who is within six units of completing all degree requirements) must be currently enrolled for a minimum of six units of music classes (including applied music), at least two units of which must be in an academic area of music (any course other than performing ensembles and applied music). In addition, the student must earn a passing grade in all music courses, be making satisfactory progress toward a degree, and be currently enrolled in the appropriate major performance ensemble, as stipulated in section 6 above. If the

- student fails to complete with a passing grade either the required six units of music classes or the major performance ensemble, applied lessons will be withheld in the subsequent semester. Students are eligible for a maximum of three semesters of lessons at a given level of performance.
- e. Students in the B.A. program are eligible for a maximum of eight units of applied music (398 and 497 included). B.M. students are eligible for a maximum of 14 units (398 and 498 included.)
- 8. Senior transfer students or graduate students in music entering to satisfy the legal waiver for teaching credentials, are expected to complete a minimum of one semester of upper-division course work in music with a GPA of at least 3.0 before they may be approved for admittance to teacher education. Required courses and competencies must be satisfied before the faculty committee will consider endorsing the student's acceptance into the credential program.
- A music major must maintain a 2.5 GPA in music course work at Cal State Fullerton in order to be approved for graduation. In addition a student must earn a grade of C or better in all music courses required for the Bachelor of Arts in Music or Bachelor of Music degree.
- All requests for exceptions to departmental or curricular requirements must be directed by petition to the department chair.

MUSIC DEGREE PROGRAMS

The Department of Music offers a variety of courses that lead to baccalaureate and graduate degrees in teaching and the professions. The baccalaureate degree may be earned in either of two degree programs (Bachelor of Arts and Bachelor of Music). Within these programs, a student will pursue a concentration in liberal arts, music history and theory, music education, performance, composition or accompanying.

BACHELOR OF ARTS IN MUSIC

The Bachelor of Arts in Music shall consist of no fewer than 50 units of music, of which at least 29 shall be upper division (300 level and above). All Bachelor of Arts students must complete the basic requirements listed immediately below and must select and complete the requirements listed in one of three concentrations: Liberal Arts, Music History and Theory or Music Education.

Core Requirements

	some on entering the university as a new number major or upon
N	Music theory (Music 111A,B; 211; 319A; 320A
	or B) 14
V	Music history and literature (Music 251;
	351A,B,C)
F	Principal performance area (Applied Music) 4
	Major performance ensemble
	Music 361A,B,C,E,F,W) 4
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Liberal Arts Concentration

This concentration allows a student to take an academic major in music without being involved in a program of professional preparation. The degree emphasis is historically the oldest such study plan in music in higher education and represents a liberal-arts response to the highly professional program of the Bachelor of Music degree.

etinU Education 442 (3) Music Education 449E ₃ (3) and
Core requirements for BA degree
Music theory (Music 316 or 318, 323 or 422) 4
Conducting (Music 382A or 383A)
Senior project (Music 398 or 497)
Music literature (Music 453A through 459B) 2
Electives (minimum of 6 upper division; no more than 2
units of Music 193-493)
Total50

Senior Project garrelganos yet tam ed odle yem ememoringen acit

Two alternatives are available to the student, each with a different focus and prerequisite:

Alternative 1 (Music 398: Recital): Prerequisite is achievement of 300 applied music level in the area of principal performance one semester before the semester in which the student plans to present the recital. The student will present a brief recital in a regular recital time or in the appropriate workshop (at faculty discretion).

Alternative 2 (Music 497: Project): Prerequisite is achievement of 200 applied music level *two* semesters before the semester in which the student plans to present the project. The student will prepare a special project in the senior year which will culminate in a lecture, lecture-recital or other form of public presentation. To the greatest extent possible, this project should be an independent investigation into an area of special interest and should involve minimal faculty guidance. The public presentation will be evaluated by a faculty committee, as is the case with senior recitals, and must be approved by that committee prior to graduation.

In the case of both alternatives, the recital or project will be included when calculating the student's quota of state-funded private lessons.

Music History and Theory Concentration

This concentration is designed as a balanced program in music history and theory and provides suitable preparation for advanced degrees in theory, literature or musicology. It also provides basic preparation for advanced study in other fields, such as musical acoustics, music therapy, ethnomusicology, library science in music, and music in industry and recreation.

Students seeking the concentration in Music History and Theory must submit a paper to the music history or theory coordinator not later than the beginning of their junior year. Acceptance into the degree program is contingent on the submission of a satisfactory paper.

Allied requirements for the Music History and Theory concentration:

- 1. Twenty units in a secondary academic area (not music, but related to the student's project or useful to prepare the student for future graduate work in music). The choice of a secondary academic area must be approved in writing by the coordinators of music history and theory. Suggested areas: art, English, theatre, history, physics (acoustics), anthropology, languages or computer science.
- Foreign language proficiency, preferably German, to be satisfied by one of the following:
 - a. Four years of study at the secondary school level,
 - b. Passing an examination given by the Department of Foreign Languages and Literatures, or
 - c. Completing with a passing grade the second semester of the beginning university sequence of a foreign language.

Unit	ts
Core requirements for the Bachelor of Arts 3	4
Music theory (Music 316, 319A)	4
Conducting or composition (Music 382A or 383A or 422)	2
Project-proposal preparation (Music 499)	1
Music history or theory project (Music 497)	1
Electives in music	
Total5	0

Music Education Concentration

Piano Pedagogy Emphasis:

The emphasis in piano pedagogy is designed to provide in-depth preparation for individual and group piano instruction and will not lead to teaching in the California public schools.

put desiring a Californii ("Caelifornii Caelifornii Ca	Inits
Core requirements for Bachelor of Arts	. 34
Keyboard Ensemble (363K)	1
Applied Piano (393)	1
Conducting (382A or 383A)	2
Recital (398)	1
Piano Literature and Interpretation (454A, B)	4
Piano Pedagogy (467A, B, C)	6
Electives (recommended by advisement)	1
Total	. 50

 ^{*} Co-enrollment in Observation and Practice Teaching (Music 465 and 466) strongly advised.

Instrumental	Vocal-Choral.	General	Music	Emphases.
THIS WHITE HULL,				

The emphases in instrumental, vocal-choral and general musicare designed to provide in-depth preparation for teaching in the California public schools under the provisions of the Teacher Preparation and Licensing Law of 1970 (Ryan Act).

Instrumental Emphasis: Units
Core requirements for the Bachelor of Arts 34
Orchestral instruments (Music 281B/C,P,S/T,W/X by
advisement) 4
Music theory (Music 323) 2
Conducting (Music 382A,B) 4
Chamber Music (363) 4
Recital (Music 398)
Total50
Voed Chard Forthering State of the State of
Core requirement for the Bachelor of Arts
Orchestral Instruments (Music 281B,P,S,W)
Conducting (Music 383A,B)
Chamber Music (Music 363)
Recital (Music 398)
Electives
Total
Con requirements for the Bachelor of Arts 14
General Music Emphasis: Units
Core requirements for Bachelor of Arts
Orchestral Instruments (Music 281B,P,S,W)
Conducting (Music 383A,B) 4
Music and Child Development (Music 333)
Music in the Modern Classroom (Music 435)
Orff Techniques for Children (Music 436)
Recital (Music 398)
Electives in music
Total 50
preparation for individual and group plant transcrion and will
Credential Information
Students desiring a California teaching credential in music must
complete the following courses prior to enrolling in the profes-
sional education program as required by the Department of Sec-
ondary Education.
Conducting 1382A or 383A) with a property to state 22
Instrumental Emphasis: Units
Music Education 295, 394, 395A; Music 324, 383A,
353, 444, and 281 (C,T,X by advisement)
Elective (meanmended by advisement)
Choral-Vocal Emphasis:
Music Education 295, 394, 395B, 441;
Music 354, 382A and 380

General	11	- 1 F		
Teneral	1/11/	1516 1	mpn	1818.

Music	Education	295,	394,	395B,	441	and	Music	381	is coude	8

Students who wish to earn a single subject credential in Music in addition to a Bachelor of Arts with a Music Education concentration must complete the following:

Units
Music Education 442 (3) Music Education 449E (3) and
professional education courses Secondary Education 440F
and 440S
Music Education 449I (Student teaching) and Music Educa-
tion 449S 12
Total (1907) A. V. M. ACC. Music Metal 24

Prior to admission to teacher education, the student must reach 300 level in the principal performance area and pass functional examinations in keyboard and voice. The functional examination requirements may also be met by completing Music 282B (piano) and Music 283B (voice) with minimum grade of B.

BACHELOR OF MUSIC

This degree program is designed to provide training for the highly gifted students who show promise and capability of becoming professional performers and composers.

The degree consists of 132 semester units. A minimum of 70 semester units in music are required, at least 32 of which must be upper division.

Core Requirements for the Bachelor of Music

Units
Music Theory (Music 111A, B: 211: 319A: 320A
or 320B*)14
Music History and Literature (Music 251; 351A,B,C) 12
Principal Performance Area (Applied Music) 6
Major Performance Ensemble (Music 361)4
Recital (Music 498)
Total

^{*}Music 320A and 320B required in Concentration in Composition 33 516Ving

Composition Concentration

	~
Core requirements for the Bachelor of Music	
Music theory (Music 316; 318; 319B; 323; 422)	12
Conducting (Music 382A or 383A)	2
Applied composition	5
Electives in music	14
Total	

Units

Instrumental Concentration Orchestral Instruments Emphasis: Units	a. Four years' study of foreign language at the secondary school level, or
Core requirements for the Bachelor of Music	other fields. A maximum of 14 lower-division/inits may be in-
Music theory (Music 310, 323, 422)	b. Passing an examination given by the Department of Foreign
Principal performance area (Applied Music) 6	Languages and Literatures, or
Recital (Music 398)	
Recital (Music 398) 1 Conducting (Music 382A,B) 4 Chamber music (Music 362 and 363) 6 Electives in music 10	c. Completing the second semester of the beginning university
Electives in music	sequence of a foreign language.
Total 70	endenn is qualified) and a color configuration of the colorest of
Option II, music education, shall complete a thesis, persection	Accompanying Concentration Units
Classical Guitar Emphasis: Units	Company of the Polylor of Maria
Core requirements for the Bachelor of Music 37	Core requirements for the Bachelor of Music
Music theory (Music 316, 323, 422)	Music literature (Music 455, 457A)
Principal performance area (Applied Music)	Principal performance area (Applied Music) 5
Recital (Music 398)	Chamber music (Music 363)
Chamber music (Music 363G) 6 Electives in music 6 Fingerboard skills (Music 385G) 2 Guitar history and literature (Music 459A) 2 Guitar pedagogy (Music 459B) 2 Total 70	Harpsichord class (Music 372)
Electives in music	Organ class (Music 373)
Fingerboard skills (Music 385G)	Functional Skills (Music 385)
Guitar history and literature (Music 459A) 2	Conducting (Music 383A)
Guitar pedagogy (Music 459B) 2	Diction (Music 380A,B,C)
Similar Total	Recitals (Music 398, 498)
Keyboard Concentration Units	Electives in music
dinission to the programs in choral of mismanental continued in	Total
Core requirements for the Bachelor of Music	Prerequisite: may recombilisting on Curff and an arma of stand
Music literature (Music 454A,B)	Commercial Music Concentration:
Conducting (Music 382A or 383A)	Instrumental Emphasis Units
Recital (Music 398)	Core requirements for the Bachelor of Music 37
Principal performance area (Applied Music)	Music Theory (Music 312A,B) 4
Chamber music (Music 362 or 363)	History of American Commercial Music (Music 356) 3
Accompanying (Music 386)	Principal Performance Area (Applied Music)
Pedagogy (Music 467A,B,C)	Improvisation (Music 265A,B)
Harpsichord or Organ class (Music 372 or 373) 1 Electives in music 5 Total 70	Recital (398)
70 leaduate study in music, at least half of which must be in	Lab Band or Stage Band (Music 362L or 362S) 4
200-level courses. Music 200, Introduction to Oraduate Study in	Electives in Music
Voice Concentration Units Core requirements for the Bachelor of Music	naibaste Totalene, bodieselo, not vloge, vem snobus, oreshem 70
Core requirements for the Bachelor of Music 37	only upop arrainment of the following presequiates: (a) concile-
Music theory (Music 316, 422)	Commercial Music Concentration:
Music literature (Music 456; 457A,B)	Composition-Arranging Emphasis Units
Recital (Music 398)	Core requirements for the Bachelor of Music
Opera Theatre (Music 361D)	Music Theory (Music 312A,B; Music 314A,B;
Diction (Music 380A, B, C)	Music 323) 1244 10. 102. 202. 202. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
Conducting (Music 383A)	History of American Commercial Music (Music 356) 3
Pedagogy (Music 468A,B)	Applied Composition/Arranging
Electives in music obid. Alexa, at moon, path across flowed by	Improvisation (Music 265A)
1070. For the entrance audition in history and literalistof applicants must submit an example of a previously written research paper on	Lab Band or Stage Band (Music 362L or 362S) 4
Allied requirement for voice concentration:	Recital (Music 398)
Proficiency in two foreign languages (French, German, Italian),	Electives in Music No. 100 110 110 110 115
each to be satisfied by one of the following:	style Re Total

MINOR IN MUSIC

The minor in music may be used by persons whose majors are in other fields. A maximum of 14 lower-division units may be included in work counted toward the music minor. The minor requires a minimum preparation of 20 units as follows:

	Units
Theory of music (selected from Music 101; 111A,B; 211; or any 300- or 400-level theory classes for which the student is qualified)	
Music history and literature (Music 100; 251; 350 or 351A,B,C; or courses at the 400- or 500- level for which	
the student is qualified) Applied techniques (selected from Music 183, 184A,B; 281B,P,S,W; 283A,B or any course in ensemble, con-	
ducting, piano, voice or orchestral instruments at the 300- or 400-level for which the student is qualified)	. 8-9
Total	20

Two graduate degrees in music are offered in the Department of Music: the Master of Music and the Master of Arts. Each degree seeks to serve a special group of graduate students. For those who intend to pursue advanced degrees beyond the master's level, the Master of Music normally leads to the D.M.A. degree, and the Master of Arts to the Ph.D. or the Ed.D.

Admission to Graduate Standing: Conditionally Classified

All applicants admitted into the music program enter in conditionally classified graduate standing. University requirements include: a baccalaureate from an accredited institution; a gradepoint average of at least 2.5 in the last 60 semester units attempted; and good standing at the last college attended. Each applicant must also present a satisfactory audition, submit an acceptable written essay in the area of specialization, and pass entrance exams in music theory, music history and writing.

Graduate Standing: Classified

A graduate student may apply for classified graduate standing only upon attainment of the following prerequisites: (a) completion of all requirements for conditionally classified standing as described above; (b) a major in music (or the equivalent of a major; i.e., 29 upper-division units in music) with a minimum grade-point average of 3.0 in the major; and (c) satisfactory completion of Music 500, Introduction to Graduate Study in Music. One objective of Music 500 is the preparation of a study plan listing all courses required for completion of the degree. This study plan must receive the approval of the coordinator of the student's area of specialization, the Music Department graduate program adviser and the dean of graduate studies. Opportunity is given the student to remove any deficiencies in undergraduatelevel preparation. Courses taken to satisfy deficiencies usually will not be included on the student's study plan and thus will not count toward the master's degree.

Students who do not pass one or more of the entrance examinations shall take and complete specified coursework with a grade of A or B. Music 450 satisfies the entrance examination requirement in music history, and Music 411 meets the requirement in music theory. Students may elect to bypass the history and theory entrance exams and take the appropriate class(es) instead. Those who do not meet required writing proficiency at entrance shall take an appropriate course specified by the Music Department. The writing proficiency requirement must be met before a student may take Music 500, and the music history requirement must be satisfied before a student may take any 500-level music history seminar.

MASTER OF MUSIC

The Master of Music provides an avenue of graduate study for the highly creative composer or for the superior performer in a program tailored to each student's demonstrated talent and to each student's professional development. Applicants must have completed either a Bachelor of Music degree in performance or composition or show evidence of equivalent rigorous training. For the entrance audition, applicants in performance must demonstrate proficiency equivalent to the 400 level, the level expected of a performance major in the Bachelor of Music program at the time of the senior recital, while composition applicants must submit a portfolio of scores for examination by the composition faculty. For admission to the programs in choral or instrumental conducting, applicants must show evidence of substantial conducting course work at the undergraduate level plus practical experience. Further, to audition for entrance into the program, each choral applicant must demonstrate conducting proficiency with a mixed chorus and each instrumental applicant must demonstrate conducting proficiency with a band or orchestra. Under exceptional circumstances, a tape may be substituted for the live audition.

Study Plan (Marie 40, Back (O.d. Alide Saul) ygogobol

The Master of Music degree program requires a minimum of 30 units of graduate study in music, at least half of which must be in 500-level courses. Music 500, Introduction to Graduate Study in Music, must be taken within the first nine units. At least one recital is required, in addition to a corollary written project. Under certain circumstances, and with departmental approval, a thesis may be substituted for the recital and written project.

MASTER OF ARTS IN MUSIC

Two options are offered in this degree program: Option I in music history and literature, and Option II in music education. Both options provide for breadth of advanced study as well as an area of specialization. The degree is for teachers and supervisors of music and for college teaching careers in music history or music education. For the entrance audition in history and literature, applicants must submit an example of a previously written research paper on a musical subject, while applicants to the program in music education must submit a 30-minute tape demonstrating their teaching technique in a classroom situation.

Study Plan | Projects in Company of the restrict deligned ORS

The Master of Arts degree program requires a minimum of 30 units of graduate study, no more than nine of which may be outside the field of music and at least half of which must be in 500-level courses in the major.

Option I in history and literature requires reading ability in a foreign language, preferably German or French, prior to advancement to candidacy, a thesis and at least six units of study in a non-music field which is supportive of the major. Students in Option II, music education, shall complete a thesis, project, or comprehensive examination. Students selecting the comprehensive examination (0 units) shall complete three additional units in the concentration. Ten semester units are common to both options (Music 500, 3 units; Music 361-363, 2 units; Music 371-571, 2 units; and Music 552-556, 3 units). Music 500, Introduction to Graduate Study in Music, must be included within the first nine units taken as a graduate student under both options.

For further details or advisement, consult the Department of Music. "Music Annual An

Music Courses

100 Introduction to Music (3)

Musical enjoyment and understanding through a general survey of musical literature representative of styles and performance media. Music will be related to other arts through lectures, recordings and concerts. For non-music majors.

101 Music Theory for Non-Music Majors (3)

Basic theory and practical applications to improve music performance and listening skills. Includes sightsinging and relationship to keyboard and simple melodic instruments. For non-music majors.

103 History of Rock (3)

Rock music around the world; its origins and the development of national styles. Emphasis on listening. For non-music majors.

111A,B Diatonic Harmony (2,2)

Includes scales and intervals, triads and their inversions, harmonizations, non-harmonic tones, modulation and seventh chords. Co-enrollment in the corresponding section of Music 111AL or 111BL is required for music majors and is recommended for others.

111AL, 111BL Diatonic Harmony Laboratory (1,1)

Application of materials in Music 111A and 111B. Activity to include sightsinging, dictation and keyboard exercises. (2 hours activity) the Remaissance Inagragorate quoty limina sunor

182 Piano Class for Music Majors (2)

Keyboard skills for students whose major performance instrument is not piano. (3 hours activity)

183 Voice Class for Non-Majors (1)

Beginning and elementary techniques in singing for the nonmusic major. May be repeated for credit. (2 hours activity)

184A Piano Class for Non-Majors (1)

Beginning and elementary piano techniques for the non-music major. (2 hours activity)

184B Piano Class for Non-Majors (1)

Prerequisite: Music 184A or consent of instructor. Continuation Prerequisite: Jazz Improvisation I and II or consent of it. A481 for

185A Guitar Class for Non-Majors (1)

Beginning and elementary classical guitar techniques for the non-music major. May be repeated for credit. (2 hours activity)

185B Guitar Class for Non-Majors (1)

Prerequisite: Music 185A or consent of the instructor. Elementary classical guitar techniques for the non-music major. Continuation of Music 185A. May be repeated for credit. (2 hours activity)

193, 293, 393, 493 Individual Instruction (1-2)

Prerequisite: jury recommendation. Individual study with approved instructor. Emphasis on technique and repertoire. Music majors must register for a minimum of one unit per semester. Performance majors approved by jury recommendation should register for two units per semester. Jury examination required. Instructional fee required. May be repeated for credit.

196 Student-to-Student Tutorials (1-3)

Prerequisites: a 3.0 or higher grade-point average and/or consent of instructor and simultaneous enrollment in the course or previous enrollment in a similar course or its equivalent. Consult "University Curricula" in this catalog for more complete course description.

211 Chromatic Harmony (2)

Prerequisite: Music 111B. Continuation of Music 111A, B. The chromatic practice of the 19th century. Secondary dominants; ninth, eleventh and thirteenth chords; sequence, Neapolitan and augmented sixth chords. Co-enrollment in Music 211L is required for music majors and is recommended for others.

211L Chromatic Harmony Laboratory (1)

Application of materials in Music 211. Activity to include sightsinging, dictation and keyboard exercises. (2 hours activity)

251 Survey of Musical Literature (3)

Literature of music in Western civilization. Open to minors and qualified students by consent of instructor. Students should be able to read music as a part of the analysis of form, design and style. Required of majors. (3 hours lecture)

265A Jazz Improvisation I (1)

Prerequisite: Music 111A, B, ability on a standard jazz instrument or consent of instructor. Application of scales and their relationship to chords, includes modes, jazz rhythmic phrasing, blues progressions, and cycle of dominant seventh chords. Basic jazz keyboard drills and ear training involved.

265B Jazz Improvisation II (1)

Prerequisites: Music 265A and 211, or consent of instructor. Continuation of modal patterns and jazz rhythms for improvisation. Explores melodic construction in improvisation. Emphasis on playing II-V-I progressions in major and minor keys. Includes jazz keyboard drills and ear training.

265C Jazz Improvisation III (1)

Prerequisite: Jazz Improvisation I and II or consent of instructor. Continuation of Jazz Improvisational pedagogy and techniques with an emphasis on performance application. Includes form and stylistic analysis and ear training.

281B,C,P,S,T,W,X Orchestral Instruments (1,1,1,1,1,1)

Techniques and materials for teaching orchestral instruments. Required for music education emphasis. Instrumental majors required to fulfill competency requirements for instruments listed in each course description except that of their major performance instrument. May be repeated for credit. Instructional fee required. (3 hours activity)

281B Brass Instruments (1)
Trumpet and French Horn.

281C Brass Instruments (1)

Trombone, Baritone and Tuba.

281P Percussion Instruments (1) Snare drum and mallet-played instruments with related work on other standard percussion instruments.

281S String Instruments (1)

Violin and Viola.

Cello and String Bass. 281T String Instruments (1)

281W Woodwind Instruments (1)

Flute, Clarinet and Saxophone.

281X Woodwind Instruments (1)

Oboe and Bassoon.

282A,B Piano Class for Music Majors (2,2)

Keyboard skills for students whose major performance field is not piano. A — Prerequisite: Music 182 or placement by instructor. B — Prerequisite: Music 282A or placement by instructor. Meets minimum piano proficiency requirements for degree. (3 hours activity) 10 101 Les Geographicas Lat.

283A,B Voice Class for Instrumentalists (1,1)

A - Prerequisite: teaching credential candidate or consent of instructor. Vocal skills for students whose major performance field is not voice. Prepares music education students to work with young singers in group settings by understanding their own vocal problems and the solutions in a variety of vocal styles. B -Prerequisite: Music 283A. Continuation of Music 283A at more advanced level. Completion of Music 283B satisfies voice proficiency requirement for music credential candidates.

290 English Diction (1)

Prerequisite: Sophomore standing or consent of instructor. Standard English for singers. Examples from American and British vocal literature explained through the use of the International Phonetic Alphabet. Individual performance of examples plus assigned repertoire.

301 Techniques of Song Writing (3)

Prerequisites: Music 101 or consent of instructor. Melody writing and setting of text to music. Includes consideration of metric values of text, music and chord progressions. For non-music Option II, music education, shall complete a thesis, pro stojem

302 History of Jazz (3) anno Hada (anno 0) nortanimismo avia

Prerequisite: Music 100 or 101 or consent of instructor. Historical study of jazz music in America; chronological development and stylistic evolution with consideration of peripheral trends. Emphasis on listening. For non-music majors.

303 Ethnic Music (3)

Prerequisite: Music 100 or consent of instructor. Survey of music from Europe, Asia, Africa, Australia, Oceania, the Caribbean and indigenous Indian music from North and South America. Emphasis on musical styles and forms, and religious and ritualistic functions of music in various cultural frameworks.

304 Music of Mexico (3)

Survey of the art, folk and traditional music of Mexico from pre-Cortesian aboriginal music to 20th-century style, including neo-Hispanic, folk (corrico, etc.), mestizo, mariachi, nationalistic, jazz and modern art music. Interrelationship between traditional (folk) and serious (art) music; effects of Mexico's history on its music.

305 Women in Music (3)

Prerequisite: Music 100 or consent of instructor. A study of the contributions women have made as composers and performers as well as the historical limitations to which women musicians have been subject. Recitals by guest lecturers and presentation of a culminating study on selected topics by students.

306 Business of Music (3)

Prerequisites: Music 100 or consent of instructor. This course is designed as a comprehensive survey of the business aspects of songwriting, publishing, copyright, legal affairs, the record industry, music in broadcast and film, and career planning and 111A.B Distonic Harmony (2,2) development.

312A,B Commercial Arranging (3)

Prerequisite: Music 211. Harmonic practices in commercial music; stage band and jazz writing techniques. (May be repeated once for credit.)

314A Special Projects in Commercial Music (2)

Prerequisite: Music 312B or consent of instructor. Three- and four-part voice accompaniment; planning and executing the multi-chorus small group arrangement.

314B Special Projects in Commercial Music (2)

Prerequisite: Music 314A or consent of instructor. Introduction to harmonic substitutions; planning and executing arrangements for larger groups of instruments.

316 16th-Century Counterpoint (2)

Prerequisite: Music 211 or consent of instructor. Sixteenth-century counterpoint in two, three and four parts, covering motet, canon, double counterpoint.

318 18th-Century Counterpoint (2)

Prerequisite: Music 316 or consent of instructor. Eighteenthcentury counterpoint in two, three and four parts, covering invention, canon, double and triple counterpoint and fugue.

319A,B Form and Analysis (3,2)

Prerequisite: Music 211 or consent of instructor. A — Analysis of structural elements of music such as motive phrase and period: binary, tenary, rondo, sonato allegro and larger musical forms in representative musical works. Required of all music majors. B — Continuation of A; larger musical works.

320A,B 20th-Century Techniques (2,2)

Prerequisite: Music 211. Compositional practices of the 20th century; emphasis on written examples in the various styles, includes sightsinging, keyboard practice and dictation. A -Compositional techniques from 1890 to 1945. B — Compositional techniques since 1945, to include the synthesis of sound. (1 hour lecture, 2 hours activity)

323 Orchestration (2) Prerequisite: Music 319A, 320 or consent of instructor. Writing and analysis of orchestral music. I) and show beauty Made

324 Scoring for the Band (2) same based and before managed A

Prerequisite: Music 323 or consent of instructor. Devices, techniques and skills required to produce complete transcriptions for the contemporary public school wind band. How have Vede

333 Music and Child Development (3)

Prerequisite: Music 101 or equivalent or successful completion of proficiency test. The relationship of music to child growth and development for the child from 5 to 12. Survey of age-appropriate music materials.

350 Music in Our Society (3)

Prerequisite: Music 100 or consent of instructor. Music in its relationship to general culture. A sociological approach; musical criticism and journalism, concert life, audience psychology and the political/religious/business aspects of the American musical

351A History and Literature of Music (3)

Prerequisite: Music 211 and 251 or consent of instructor. A study of the history and literature of music from early Greek beginnings through the Renaissance area.

351B History and Literature of Music (3) Vilosovin J 9108

Prerequisite: Music 351A. A study of the history and literature of music of the Baroque and Classic eras. Fulfills the course requirement of the university upper division baccalaureate writing requirement for music majors.

351C History and Literature of Music (3)

Prerequisite: Music 351B. A study of the history and literature of music from the Romantic era to the present.

352 Symphonic Music in Western and Eastern Cultures (3)

Prerequisite: Music 100 or 101 or consent of instructor. Survey of symphonic music in Western and Eastern cultures from Baroque through Modern periods.

353 Public-School Instrumental-Music Materials (2)

Prerequisite: Music 382A or concurrent enrollment. The study of instrumental-music materials, repertoire, programming, and curriculum for public-school instrumental-music ensembles. Topics will include solo, chamber, and large-ensemble repertoire.

354 Survey of Public School Choral Music Materials (2)

Prerequisite: Music 383A. Examination and analysis of choral repertoire suitable for junior and senior high choruses.

355 Film Music (3)

Prerequisites: Music 100 and an ability to read music or Music 101. An historical survey of motion picture musical scores. Analysis, listening and examination of motion picture scores.

356 History of American Commercial Music (3)

Prerequisites: Music 251, 312A, 319A and consent of instructor. A study of American commercial music in the 20th century: jazz, popular, rock, theatre, dance, film, and television; includes stylistic, formal, and harmonic analysis of selected works.

361A-W Major Performance Ensemble (1)

Study and performance of standard and contemporary music literature. Public concerts on campus and in the community each semester; participation is required. A concert tour may be included by some groups. (More than 3 hours major production) May be repeated for credit.

361A Symphony Orchestra (1)

Prerequisite: audition or consent of instructor. Instructional fee required.

361B University Choir (1)

Prerequisite: consent of instructor.

361C Symphonic Band (1)

Prerequisite: consent of instructor. Instructional fee required.

361D Opera Theatre (1)

Roles and representative excerpts from standard and contemporary operas and the musical, dramatic and language techniques of the musical theatre. Performance of operatic excerpts and complete operas. Also open to non-vocal majors.

361E University Singers (1)

Prerequisite: advanced voice students or those accepted by audition.

361F University Wind Ensemble (1)

Prerequisite: advanced wind and percussion students accepted by audition. Instructional fee required.

361W Women's Choir (1)

Prerequisite: consent of instructor. Performance of choral 35 C History and Literature of Music (1)

Presequence Music 5318. A such of the blast as and distraction literature.

362B Varsity Band (1)

Prerequisite: consent of instructor. The Varsity Band provides music for Titan football and basketball games, and other related activities. May be repeated for credit. Instructional fee required.

362D Percussion Ensemble (1)

Prerequisite: consent of instructor. Study and performance of music written for the Percussion Ensemble. May be repeated for credit. (2 hours activity)

362E Brass Ensemble (1)

Prerequisite: consent of instructor. Study and performance of music written for large brass choir/ensemble. May be repeated for credit. Instructional fee required. (2 hours activity)

362L Jazz Ensemble I (1)

Open by audition and consent of instructor. Numerous public performances on campus and in the community. Open to nonmusic majors. May be repeated for credit.

362M Horn Ensemble (1)

Prerequisite: consent of instructor. Study and performance of music written for French Horn Ensemble with emphasis on the solution of various problems relating to multiple horn literature.

362P Choral Laboratory (1)

Open by audition or with consent of instructor. Performance of choral literature for small vocal ensembles using student conductors. May be repeated for credit. serverier participation is required. A consent tra-

362R Chamber Orchestra (1)

Prerequisite: consent of instructor. Study and performance of representative chamber orchestra literature. Open to university students and qualified adults in the community. May be repeated for credit.

3628 Jazz Ensemble II (1) Prerequisite: Open by audition and consent of instructor. (For those who do not qualify by audition for 362L.) Jazz and jazz-rock ensemble; public performance each semester. Open to non-music majors by audition. May be repeated for credit.

362X Beginning Opera Techniques (1)

Prerequisite: recommendation of voice faculty. Arias for the beginning opera student, and fundamentals of stage movement. May be repeated for credit.

363B-X Chamber Music Ensembles (1)

Open to all qualified wind, string or keyboard students. Ensembles will study, read and perform representative chamber literature of all periods. May be repeated for credit. Instructional fee required (except in 363K and optional in 363J). (2 hours 316 16th-Century Counterpoint (2) (viivitas

Prerequisite: Music 211 or consent of instructor. Six 8888

363J Jazz Combo

363K Keyboard

3638 Strings

Prerequisite: Music 316 or consent of marry bniwbook

363X Saxophone and four and four counterpoint in two there and four

363V Chamber Music Ensemble (1)

Prerequisites: Music 361B, E, or W, and consent of instructor. Singers and student directors will study, read and perform representative choral chamber literature of all periods. May be repeated for credit. (2 hours activity) a grande obnes yisnes yisnes

365G Guitar Performance Workshop (1)

Prerequisite: consent of instructor. Weekly workshop performances by students, faculty and guests. Recommended for guitar majors each semester. May be repeated for credit.

3651 Instrumental Workshop (1) dvad garigated as bulgat

Application of instrumental technique to performance practices through lecture, demonstrations, master classes and ancillary recitals. Recommended for instrumental major each semester. May be repeated for credit. Instructional fee required. (1 hour activity and 1 hour TBA) (5) works besides O ESE

365K Keyboard Workshop (1) James la readono lo sieviscas bos

Weekly workshop performances by students, faculty and guests. Recommended for keyboard major each semester. May be repeated for credit. I was some to an across the second part of the second p

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365V Vocal Workshop (1)

Application of vocal technique to performance practices through lecture-demonstration, master classes and ancillary recitals. Recommended for vocal major each semester. May be repeated for credit.

372 Harpsichord Class for Music Majors (1)

Prerequisite: 300-jury level in piano or organ or consent of instructor. The harpsichord as an instrument, the application of baroque stylistic characteristics, and training in the rudiments of continuo playing in ensemble with voices and instruments. (2 hours activity)

373 Organ Class for Music Majors (1)

Prerequisite: 300-jury level in piano or consent of instructor. The organ as an instrument, the playing techniques, and repertoire. The differences between piano and organ techniques. (2 hours activity) activity the Renaissance and

380A,B,C Diction for Singers (1,1,1)

Prerequisite: sophomore standing or consent of instructor. Proper singing diction; may not be considered a substitute for formal language study. Examples from standard vocal literature explained through the use of the International Phonetic Alphabet.

A — Italian. B — German. C — French.

382A,B Instrumental Conducting (2,2)

Prerequisite: two courses from 281B,P,S,W or consent of instructor. A — Principles, techniques and methods of conducting orchestral and band groups. Required of all music education majors. Instructional fee required. (4 hours activity) B — Continuation of 382A, including laboratory experience in conducting instrumental groups, using standard instrumental literature. Instructional fee required. (4 hours activity)

383A,B Choral Conducting (2,2)

Prerequisite: one semester of voice class or consent of instructor. A — Principles, techniques and methods of conducting choral groups. Required of all music education majors. (4 hours activity) B — Continuation of 383A including laboratory work with class and vocal ensembles, using standard choral repertoire. (4 hours activity)

385 Functional Skills for Keyboard Majors (2)

Development of the ability to sight-read, harmonize, transpose and improvise. (4 hours activity)

385G Guitar Fingerboard Skills (2)

Prerequisite: upper-division guitar standing or consent of the instructor. Development of comprehensive understanding of the guitar fingerboard, with emphasis on scales, intervals, chord formation, harmonic progressions and sight-reading.

386 Piano Accompanying (1)

Prerequisite: by audition only. Piano accompaniments for instrumentalists, vocalists and ensembles. Participation in rehearsals, recitals and concerts required. May be repeated for credit. (2 hours activity)

395 Internship: Professional Experience (1-3)

Fieldwork in music under supervision of resident faculty and professionals in the field. Requires minimum six hours fieldwork per week for each unit credit. May be repeated for credit to a maximum of six units. Open to all music students by consent of instructor.

398 Recital (1) Toront, elegions of (complete solutions) and (1)

Prerequisites: 300-jury level in the principal performance area and consent of instructor. Corequisite: Enrollment in Music 365K or V. Preparation and presentation of representative works in the principal performance area. In the semester of recital presentation, Music 398 will substitute for one unit of 393. Instructional fee required.

411 Survey of Music Theory (3)

Prerequisites: Completion of all lower division theory requirements, and at least senior standing or equivalent. An examination of the theoretical basis of music from 1500 to the present through analysis, readings, and discussion. Intended primarily for graduate and postbaccalaureate students. Fulfills graduate entrance examination requirement in music theory. May not be applied to a graduate study plan.

422 Composition (2)

Prerequisites: Music 316, 319A and 320A or B or consent of instructor. Composition of smaller forms in various contemporary styles.

424 Practicum: Electronic Music Laboratory (1)

Prerequisites: Music 320B, 471 level in applied music composition and consent of instructor. Individual and group instruction in electronic music composition. May be repeated for credit. (3 hours laboratory)

433 Music in Early Childhood (3)

Prerequisite: junior or senior standing. Songs, creative activities, and materials for teaching music in early childhood education. Teaching-learning strategies. Instructional fee required.

435 Music in the Modern Classroom (2)

Prerequisite: Music 333 or consent of instructor. A survey of 20th-century materials and techniques, of recordings for creative movement to music, and of choral materials and techniques appropriate for the elementary school choir.

436 Orff Techniques for Children (1)

Methods and techniques influenced by Carl Orff in teaching music for children. Rhythmic speech, song and movement. (one hour activity)

444 Survey of Marching Bands (2)

Prerequisite: consent of instructor. Techniques, materials, administration for marching band. Charting for field shows and parade activities.

450 History of Musical Style (3)

Prerequisites: Music 351A,B,C, or equivalent, or consent of instructor. Intensive review of the principal musical styles in Western music. Intended primarily for graduate and postbaccalaureate students. Fulfills graduate entrance examination requirement in music history. May not be applied to a graduate study plan.

453A,B Choral Literature and Interpretation (2,2)

A — Prerequisites: Music 383A or equivalent and 351A,B. Choral literature from Medieval, Renaissance and Baroque eras analyzed in historical perspective. Appropriate performance practices. B — Prerequisites: Music 383A or equivalent and 351C. Continuation of A with examples from the Classic, Romantic and Contemporary eras.

454A,B Piano Literature and Interpretation (2,2)

Prerequisites: Music 351A,B and junior level piano standing, or consent of instructor. Performance of representative styles and schools of piano literature; solo and ensemble repertoire. A — contrapuntal forms, sonatas and variations. B — Character pieces, fantasies, suites and etudes.

455 Instrumental Chamber Literature and Interpretation (3)

Open to all music majors, or to non-majors by consent of instructor. The class will be grouped into ensembles for demonstration purposes. The stylistic differences required in performing works of all periods.

456 Opera Literature and Interpretation (3)

Prerequisite: Music 351A,B,C or consent of instructor. All periods and nationalities, including stylistic and historical considerations.

457A Song Literature and Interpretation (2)

Prerequisite: Music 319A, 380B or consent of instructor. Study and performance of German Lieder with representative examples of periods and styles.

457B Song Literature and Interpretation (2)

Prerequisite: Music 380C or consent of instructor. Study and performance of French art songs with representative examples of periods and styles.

458 Church Music; History, Literature and Methods (2)

Prerequisites: Music 351A, B or consent of instructor. A survey of the role of music in the worship traditions of the Christian Church; methods for implementation and maintenance of a successful church music program.

459A Guitar History and Literature (2)

Prerequisite: Music 251, 211 or equivalent. Upper-division guitar standing or consent of the instructor. Historical survey of the literature for classical guitar. Important works for lute, vihuela and Baroque guitar, plus the compositions and transcriptions for modern guitar.

459B Guitar Pedagogy (2)

Prerequisite: Music 251, 211 or equivalent. Upper-division guitar standing or consent of the instructor. Fundamentals of teaching and coaching classical guitar. Materials and methods for individual and group instruction.

463 Seminar in Black Music (3)

(Same as Afro-Ethnic Studies 463)

466 Pedagogy Observation and Internship (1)

Prerequisite: junior level piano or consent of instructor. Coenrollment in 467A, B or C required. Observation of and supervised internship in piano teaching. Teaching techniques, development of lesson plans, and materials will be included.

467A,B,C Piano Pedagogy (2,2,2)

Prerequisite: junior piano or consent of instructor. A — Materials and methods for beginning and elementary students. Coenrollment in Music 466 recommended. B — Materials and methods of intermediate and early advanced students. Coenrollment in Music 466 recommended. C — Materials and methods for class piano. Coenrollment in Music 466 recommended.

468A,B Vocal Pedagogy (2,2) at montesque our estatement of

Prerequisite: senior standing or consent of instructor. A — Fundamentals of vocal pedagogy for studio and public school teaching; physiology and acoustics as they apply to singing. B — Application of the fundamentals discussed in A. Seminar discussions and actual studio teaching. The diagnosis and cure of specific vocal problems.

496 Student-to-Student Tutorials (1-3)

Prerequisites: a 3.0 or more grade-point average and/or consent of instructor and simultaneous enrollment in the course or previous enrollment in a similar course or its equivalent. Consult "Student-to-Student Tutorials" in this catalog for more complete course description.

497 Senior Project (1)

Independent investigation of an area of special interest in music culminating in a public performance, lecture, lecture-recital or other suitable demonstration. Instructional fee required.

498 Recital (1)

Prerequisites: 400-jury level in the principal performance area (400-jury level in composition for composition majors) and consent of instructor. Corequisite: Coenrollment in Music 3651,K or V. Preparation and presentation of representative works in the principal performance area. In the semester of recital presentation, Music 498 will substitute for one unit of Music 493. Instructional fee required.

499 Independent Study (1-3)

A special topic in music selected in consultation with and supervised by the instructor. May be repeated for credit.

500 Introduction to Graduate Study in Music (3)

Required of all graduate music majors. Basic bibliography, literature, and research techniques and materials useful in graduate music study.

524 Seminar in Music Theory (3)

Theoretical subjects (form/style analysis, history of music theory, etc.) to be chosen by instructor. May be repeated for credit.

552 Seminar in Music of the Renaissance (3)

Prerequisite: consent of instructor. The forms, styles, and characteristics of music between 1400 and 1600. Analysis of works by representative composers and theoretical writers.

553 Seminar in Music of the Baroque Period (3)

Prerequisite: Music 351A,B or consent of instructor. Musical forms, styles, and performance practices of the baroque period. Analysis of representative works.

554 Seminar in Music of the Classic Period (3)

Prerequisite: Music 351A, B or consent of instructor. The history and literature of music from approximately 1730 to 1826. Analysis of representative works.

Music Education Courses

295 Clinical Practice in Instrumental/Choral Techniques (1) (Formerly 299)

Clinical practice and field applications of instrumental/choral techniques classes, as in public and private schools. Coenrollment in Music 383B or 382B recommended. (3 hours weekly to be arranged in nearby school)

394A Practicum in School Materials and Techniques (2)

Prerequisite: Music Education 295. For music education majors. Experience in sequential pedagogy, classroom delivery skills, and concurrent development of management skills, aural discrimination skills, and aural and visual diagnostic skills.

394B Practicum in Skills for Teaching Music (2)

Prerequisite: Music Education 394A. Corequisite: Music Education 395A or 395B. For music education majors. Observation and application of musical concepts and materials, sequential pedagogy, nonverbal teaching strategies, and classroom delivery and management skills. Continued development of aural and visual diagnostic skills and aural discrimination skills.

395A Clinical Practice in Instrumental Conducting (1)

Prerequisite: Music Education 295. Clinical practice and field applications of concepts, materials and procedures as applied to field situations, as in public and private schools. Co-enrollment in Music Education 394.

395B Clinical Practice in Choral Conducting (1)

Prerequisite: Music Education 295. Clinical practice and field applications of concepts, materials and procedures as applied to field situations, as in public and private schools. Co-enrollment in Music Education 394.

441 Teaching General Music in Secondary Schools (2)

Prerequisite: admission to teacher education, senior standing or consent of instructor. Objectives, methods and materials for teaching general music or allied art-humanities classes in secondary schools, including their relationship to specialized instrumental and choral programs. Practical problems and field work are included.

442 Principles and Methods of Teaching Music in the Public Schools (3)

Prerequisite: admission to teacher education. History, principles of public education, grades K-12, with emphasis on music. Philosophy, methods, materials and procedures for organizing and teaching music in elementary and secondary schools. Must take concurrently with Secondary Education 440F and 440S.

449E Externship in Secondary Teaching (3)

Must be taken concurrently with Music Education 442. For candidates who have declared for the single subject credential in music. See description and prerequisite under Department of Secondary Education.

449I Internship in Secondary Teaching (10)

For candidates who have declared for the single subject credential in music. See description and prerequisite under Department of Secondary Education. Sold a Hardania alleg asymmetric

4498 Seminar in Secondary Teaching (2)

Must be taken concurrently with Music Education 449I. For candidates who have declared for the single subject credential in music. See description and prerequisites under Department of Secondary Education.

501 Contemporary Music Education (3)

Recent innovations and overview of the history, philosophy and methodology of the art of teaching music. Trends and applications of educational theory in relation to the teaching of music. Required for M.A. in Music Education.

Department of Theatre and Dance

Department Chair: Joseph Arnold
Department Office: Performing Arts 157
Production Office: Performing Arts 126

Programs Offered Bachelor of Arts in Theatre Arts

Dance
History and Theory
Production/Performance
Teaching

Master of Arts in Theatre Arts

Master of Fine Arts in Theatre Arts

Master of Fine Arts in Theatre Arts
Acting
Directing
Technical Theatre and Design
Secondary Teaching Credential

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Barbara Arms, Joseph Arnold, Don Finn, John Fisher, Susan Hallman, Dean Hess, Lawrence Jasper, Robin Johnson, Michael Kane, Gretchen Kanne, Gladys Kares, Alvin Keller, Arthur Lessac (Distinguished Visiting Professor), Araminta Little, Juan Lopez, Alex MacKenzie, Leonard Meenach, William Meyer, Sallie Mitchell, S. Todd Muffatti, Jerry Pickering, Jose Quintero (Distinguished Visiting Professor), Ron Wood, James Young, Allen Zeltzer, Abel Zeballos

INTRODUCTION

The Department of Theatre and Dance undergraduate and graduate programs include the fields of acting, dance, directing, musical theatre, oral interpretation, playwriting, technical production and design, television, theatre for young audiences, theatre history and theory. Specifically, the course work and theatrical production activities are arranged to provide opportunities for students (1) to develop an appreciation for theatre arts; (2) to become aware, as audience or participants, of the shaping force of theatre arts in society; (3) to improve the knowledge and skills necessary for work in the theatrical arts as a profession; (4) to pursue graduate studies; and (5) to prepare for teaching theatre.



Public performance is at the center of the department's programs. Therefore, continuing stage, dance and television production activities are essential for all students at California State University, Fullerton, including the undergraduate and graduate theoretical student as well as the undergraduate pre-professional and graduate conservatory student. In conjunction with on-campus dance productions the Department of Theatre and Dance offers dancers and choreographers additional experience in its adjunct company: Dance Repertory Theatre. The company is made up of carefully selected California State University, Fullerton graduates and advanced students, chosen on the basis of demonstrated excellence in their work at the University. Dance Repertory Theatre presents lecture/ demonstrations and performs locally, as well as scheduled tours throughout the year.

BACHELOR OF ARTS IN THEATRE ARTS

The concentration in History and Theory is for those who wish to study theatre as a cultural contribution or who wish to pursue graduate degrees in theatre with emphasis in theatre history and theory. It is strongly recommended that students electing this plan support the major with approved electives from art, music, foreign languages, literature, philosophy or speech.

The concentration in Production/Performance is designed to develop competency for pursuing the theatrical arts as a profession, or for pursuing graduate degrees in theatre with an emphasis in an area of concentration other than history of the theatre. Areas of emphasis are: acting, directing, musical theatre, oral interpretation, playwriting, technical design and television.

The concentration in Dance is designed to develop competency for pursuing dance as a profession or for pursuing a graduate degree in dance.

The concentration in Teaching meets the requirements of the teaching credential with specialization in secondary teaching.

In addition to the requirements listed below for the major, students must meet the other university requirements for a bachelor of arts degree. Students pursuing a concentration in Teaching must meet all specific requirements for the desired teaching credential. See description of secondary school teaching credential program under Department of Secondary Education. In addition, students pursuing the teaching concentration should see the department's secondary education adviser regarding course sequence required for the single subject waiver.

To qualify for a baccalaureate degree with a major in theatre, students must have a C or better in all theatre courses required for the degree. In addition to course requirements, all theatre and dance majors will enroll for two units of Theatre 478B each semester of residency up to a maximum of eight semesters.

Theatre 477B (Dance 325 for dance concentration) with a grade of C or better fulfills the upper-division writing requirement.

Theatre 200, or its equivalent, is a prerequisite for all upper-division theatre courses with the exception of Theatre 478A, B. Transfer students may take Theatre 200 concurrently with their first semester of upper-division courses. Prior to entering their junior year, or upon transferring to Cal State Fullerton, all students electing an Acting emphasis under the Production/Performance concentration or the concentration in Dance will be evaluated and advised as to potential for advancement in the emphasis or concentration.

Theatre History and Theory Concentration

Lower Division (15 units required)

Theatre 110 Oral Communication of Literature (3)

Theatre 200 Art of the Theatre (3)

Theatre 263A Beginning Acting — Majors (3)

Theatre 276A Beginning Stagecraft (3)

Theatre 277 Costume Fundamentals (3) A STREET

Upper Division (42 units required)

Theatre 310 Oral Interpretation of Shakespeare (3)

Theatre 364 Seminar in Playwriting (3)

Theatre 370A Fundamentals of Directing (3)

Theatre 377 Stage Costuming (3)

Theatre 386 Beginning Lighting (3)

Theatre 388 Historical Styles for Scene Design (3)

Theatre 475A,B,C,D, or E World Theatre (15)

Theatre 477A,B Seminar in Critical Techniques (6)

Electives in Theatre (3)

Production/Performance Concentration

Acting Emphasis Hall has been a staffer or staffer

Lower Division (24 units required)

Theatre 110 Oral Communication of Literature (3)

Theatre 141A,B Voice/Movement for Stage (6)

Theatre 200 Art of the Theatre (3)

Theatre 263A, B Beginning Acting — Majors (6)

Six units selected from:

Theatre 276A Beginning Stagecraft (3)

Theatre 277 Costume Fundamentals (3)

Theatre 285 Theatrical Makeup (3)

Upper Division (36 units required)

Theatre 310 Oral Interpretation of Shakespeare (3)

Theatre 363A,B Intermediate Acting (6)

Theatre 370A Fundamentals of Directing (3)

Theatre 463A,B Advanced Acting (6)

Theatre 475A,B,C,D, or E World Theatre (12)

Theatre 477B Seminar in Critical Techniques (3)

Theatre 482 Acting for Television (3)

Directing Emphasis

Lower Division (21 units required)

Theatre 200 Art of the Theatre (3)

Theatre 263A Beginning Acting — Majors (3)

Theatre 276A,B Beginning Stagecraft/Drafting (6)

Theatre 277 Costume Fundamentals (3) or

Theatre 285 Theatrical Makeup (3)

Theatre 284 Introduction to TV Production (3)

Theatre 288 Design for the Theatre (3)

Upper Division (38 units required) a sinu (1) notated rewall

Theatre 350 Stage Management (2)

Theatre 370A,B Fundamentals of Directing (6)

Theatre 386 Beginning Lighting (3) ARM STREET

Theatre 450 Theatre Management (3)

Theatre 470A, B Advanced Directing (6)

Theatre 475A,B,C,D, and E World Theatre (15)

Theatre 477B Seminar in Critical Techniques (3)

All theatre majors with an emphasis in directing must assistant stage manage a mainstage production either prior to or concurrently with Theatre 470A, Advanced Directing, and must stage manage a mainstage production prior to graduation.

Musical Theatre Emphasis

Lower Division (25 units required)

Theatre 141A, B Voice/Movement for Stage (6)

Theatre 200 Art of the Theatre (3)

Theatre 263A, B Beginning Acting — Majors (6)

Dance 142 Beginning Tap Dance (2)

Dance 212 Intermediate Classical Ballet (2)

Dance 232 Intermediate Jazz Dance (2)

Music 111A Diatonic Harmony (2)

Music 184A Piano Class (1) or equivalent

Upper Division (33 units required)

Theatre 363A,B Intermediate Acting (3,3)

Theatre 436A,B Musical Theatre Workshop (6)

Theatre 475 World Theatre (A,B,C, or D) (9)

Theatre 475E World Theatre (3)

Theatre 477B Seminar in Critical Techniques (3)

Dance 332 Advanced Jazz Dance (3)

Dance 336 Dance for Musical Theatre (3)

All theatre majors with an emphasis in Musical Theatre must prove competency in piano.

Oral Interpretation Emphasis

Lower Division (21 units required)

Theatre 110 Oral Communication of Literature (3)*

Theatre 141A,B Voice/Movement for the Stage (6)

Theatre 200 Art of the Theatre (3)

Theatre 263A Beginning Acting — Majors (3)

Theatre 276A Beginning Stagecraft (3)

Theatre 277 Costume Fundamentals (3) or

Theatre 285 Theatrical Makeup (3)

Upper Division (36 units required)

Theatre 310 Oral Interpretation of Shakespeare (3)

Theatre 370A, B Fundamentals of Directing (6)

Theatre 410A,B,C Oral Interpretation of Prose, Poetry and Drama (9)

Theatre 411 Oral Interpretation of Children's

Literature (3)

Theatre 475A,B,C,D, or E World Theatre (12)

Theatre 477B Seminar in Critical Techniques (3)

Playwriting Emphasis

Lower Division (18 units required)

Theatre 110 Oral Communication of Literature (3)

Theatre 200 Art of the Theatre (3)

Theatre 263A Beginning Acting — Majors (3)

Theatre 276A Beginning Stagecraft (3) or

Theatre 277 Costume Fundamentals (3)

Theatre 288 Design for the Theatre (3)

Theatre 284 Introduction to Television Production (3)

Upper Division (41 units required)

Theatre 350 Stage Management (2)

Theatre 364 Seminar in Playwriting (3,3)

Theatre 365 Television Writing (3)

Theatre 370A,B Fundamentals of Directing (6)

Theatre 386 Beginning Lighting (3)

Theatre 470A Advanced Directing (3)

Theatre 475A,B,C,D, or E World Theatre (12)

Theatre 477A,B Seminar in Critical Techniques (6)

Technical Production/Design Emphasis

Lower Division (21 units required)

Theatre 200 Art of the Theatre (3)

Theatre 263A Beginning Acting — Majors (3)

Theatre 276A, B Beginning Stagecraft/Drafting (6)

Theatre 277 Costume Fundamentals (3)

Theatre 285 Theatrical Makeup (3)

Theatre 288 Design for the Theatre (3)

Upper Division (35 units required)

Theatre 350 Stage Management (2)

Theatre 370A Fundamentals of Directing (3)

Theatre 377 Stage Costuming (3)

Theatre 379 Rendering for the Theatre (3)

Theatre 386 Beginning Lighting (3)

Theatre 388 Historical Styles for Scene Design (3)

Theatre 475A,B,C,D, or E World Theatre (9)

Theatre 477B Seminar in Critical Techniques (3)

Theatre 486 Advanced Lighting (3)

Theatre 488 Advanced Design and Technology (3)

Television Emphasis

Lower Division (18 units required)

Theatre 110 Oral Communication of Literature (3)*

Theatre 184 Introduction to Radio and Television (3)

Theatre 200 Art of the Theatre (3)

Theatre 263A Beginning Acting — Majors (3)

Theatre 276A Beginning Stagecraft (3)

Theatre 284 Introduction to Television Production (3)

Upper Division (39 units required)

Theatre 365 Television Writing (3)

Theatre 370A,B Fundamentals of Directing (6)

Theatre 384 Television Production and Direction (3)

Theatre 386 Beginning Lighting (3)

Theatre 475A,B,C,D, or E World Theatre (6)

Theatre 477B Seminar in Critical Techniques (3)

Theatre 484 Television Dramatic Techniques (3)

Theatre 480 Television/Film Aesthetics and

Criticism (3)

Theatre 489 Cable Television Production Workshop (3)

and 6 units electives selected from:

Theatre 277 Costume Fundamentals (3)

Theatre 285 Theatrical Makeup (3)

Theatre 288 Design for the Theatre (3)

Theatre 387 Audio Techniques (3)

Theatre 486 Advanced Lighting (3)

Dance Concentration

Lower Division (22 units required).

Dance 112 Beginning Classical Ballet (2)

Dance 122A, B Beginning Modern Dance (4)

Dance 126 Dance Improvisation (2)

Dance 212 Intermediate Classical Ballet (2)

Dance 222 Intermediate Modern Dance (3)

Dance 226 Rhythmic Analysis (3)

Theatre 277 Costume Fundamentals (3)

Theatre 285 Theatrical Makeup (3)

Upper Division (37 units required)

Dance 312 Advanced Classical Ballet (3)

Dance 323A,B Dance Composition (6)

Dance 324 Forces and Figures in Dance (3)

Dance Theory and Criticism (3) Dance 325

Dance 372 Dance Kinesiology (3)

Advanced Modern Dance (3) Dance 422

Advanced Dance Composition (3) Dance 423

Dance 424 Fundamentals of Dance Instruction (3)

Dance 425 Dance Repertory (3)

Dance 497 Production and Performance Projects in

Theatre (1)

Theatre 386 Beginning Lighting (3)

Theatre 387 Audio Techniques (3)

Teaching Concentration (Single Subject)

Lower Division (27 units required)

Theatre 141A,B Voice/Movement for the Stage (6)

Theatre 200 Art of the Theatre (3)

Theatre 263A, B Beginning Acting — Majors (6)

Theatre 276A Beginning Stagecraft (3)

Theatre 277 Costume Fundamentals (3)

Theatre 285 Theatrical Makeup (3)

Theatre 288 Design for the Theatre (3)

Upper Division (29 units required)

Theatre 350 Stage Management (2)

Theatre 370A, B Fundamentals of Directing (6)

Theatre 386 Beginning Lighting (3)

Theatre 402B Dramatic Activities for Children (3)

Theatre 470A Advanced Directing (3)

Theatre 475A, D, E World Theatre (9)

Theatre 477B Seminar in Critical Techniques (3)

or English 301 Advanced College Writing (3)

Theatre Education majors are required to complete the Waiver Program in English.

MASTER OF ARTS IN THEATRE ARTS

The Master of Arts in Theatre Arts provides a program of coordinated graduate studies built on undergraduate preparation; incentive for intellectual growth reflected in teaching and professional recognition; and a sound basis for continued graduate study in theatre. The student is expected to demonstrate a high degree of intellectual and creative competence.

Admission to Graduate Standing: Conditionally Classified and Ilveroo, nonamotor reduction

University requirements include a baccalaureate from an accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted (see section of this catalog on admission of graduates for complete statement and procedures).

Graduate Standing: Classified

A student who meets the admission requirements and the following requirements may be granted classified graduate standing upon the development of an approved study plan: an appropriate undergraduate major in theatre, with a grade-point average of 3.0 in all upper-division work in the major, or at least 24 units of

^{*}Meets General Education requirement in oral communication for theatre and dance majors.

appropriate upper-division work in theatre, with a GPA of 3.0; satisfactory completion of the Graduate Writing Requirement; and, an oral interview. Upon recommendation of the student's graduate committee, additional prerequisites may be required prior to classification and the approval of the area of emphasis.

Study Plan

The study plan will include at least 30 units of adviser-approved graduate studies, 15 units of which must be 500-level courses. Study plan course work must be completed with an overall minimum 3.0 grade-point managed About 8 A141 anged T

Each program will consist of 24 units in theatre including a project or thesis. All students must also pass oral and written examinations. Written comprehensive examinations will be given during the seventh and eighth weeks of the spring semester. Students must apply to the graduate coordinator prior to the beginning of the semester in which they intend to take the written examination. Students will be permitted to take the written examination twice.

Required Courses (18 units)

Theatre 477A Seminar in Critical Techniques (3)

Theatre 500 Introduction to Graduate Studies (3)

Theatre 501 Graduate Seminar: Advanced Theatre

Theory (3)

Theatre 573 Seminar in Dramatic Literature (3)

Theatre 575 Seminar in Theatre History (3)

Theatre 583 Graduate Seminar: Acting (3)

Electives (9 units)

As part of their electives, students may select a maximum of six units of adviser-approved supporting courses in related fields from courses outside the Department of Theatre and

Thesis/Project (3 units)

Theatre 597 Project (3) or

Theatre 598 Thesis (3)

For further information, consult the Department of Theatre and

MASTER OF FINE ARTS IN THEATRE ARTS (TECHNICAL THEATRE/DESIGN, ACTING AND DIRECTING)

This degree is for students who wish professionally oriented education and training in design/technical theatre, acting, and directing. It is the objective of the department to educate and train highly skilled, motivated individuals for careers in professional theatre (including television and film) or for careers as artistteachers in college or university theatre. Only those who demonstrate an exceptional talent, a high degree of motivation, and a deep commitment to their education and training will be admitted into the program. The highest academic and creative standards will be demanded throughout the program. A positive attitude and a rigid sense of theatre discipline are essential for success in the program.

The degree requires 60 units of approved course work. Average length of time to complete the program is three years.

Admission to Graduate Standing: Classified

Prerequisites for admission to the program and granting of classified standing are: Managed and Acol angent T

- 1. B.A., B.F.A. or M.A. from an accredited college or university with a major in theatre; or a degree in a related field and extensive work in technical theatre, acting, or directing.
- 2. Completion of an oral interview and satisfactory review of the student's portfolio or audition.
- 3. Acceptance by the faculty.
- 4. Minimum GPA of 3.0 in all upper-division undergraduate work in theatre. A minimum GPA of 2.75 for the last half of the undergraduate program is also required.
- 5. Completion of any additional prerequisites which may be required by the student's individual committee prior to classification.
- 6. Selection of a graduate adviser and committee. Total committee membership should be three or four faculty members, including the adviser.
- 7. Submission of a formal M.F.A. study program approved by the individual committee, the department graduate adviser and the dean of graduate studies.
- 8. Must meet the Graduate Writing Requirement.

Dance 212 Intermeditive Classical Admission to Graduate Standing: Conditionally Classified

Students who do not meet certain prerequisites may be considered for admission in conditionally classified graduate standing. Consult the graduate program adviser. Upper Division (37 units required)

M.F.A. Project

The M.F.A. program shall be culminated by two creative projects which, by their nature, are of sufficient challenge and complexity to be accepted as worthy completion of the period of study. These projects, which shall be comparable to a professional undertaking, are determined by the individual committee and shall be design, acting or directing assignments for major productions.

Each project shall be reviewed by the individual committee within two weeks after completion. If accepted, the student shall submit a project book within a specified time. Before the degree is granted, each student will pass an oral examination over the project book.

Study Plan — Acting
Course Requirements* Units
Take all of the following:
May be repeated for credit.
Theatre 443 Audition and Rehearsal Processes (3) Theatre 477A Seminar in Critical Techniques (3) Theatre 500 Intro to Graduate Studies (3) Theatre 563 Acting Studio (24) Theatre 575 Seminar in Theatre History (3) Theatre 583 Graduate Seminar: Acting (3)
Take one of the following: 3
Theatre 436A Musical Theatre Workshop (3) Theatre 436B Musical Theatre Workshop (3) Theatre 482 Acting for Film and Television (3) Theatre 483 Advanced Acting Workshop (3) Take dance elective (3)
Take 9 units adviser-approved electives
Complete two creative projects:
Theatre 597 Project (6)
Theatre 597 Project (6)
Study Plan — Directing
Course Requirements* Units (Exploresonne) some Description Explores Description (Control of the Control of th
Take all of the following:
Theatre 470A Advanced Directing (3) Theatre 470B Advanced Directing (3) Theatre 477A Seminar in Critical Tech (3) Theatre 484 Television Dramatic Tech (3) Theatre 500 Introduction to Graduate Studies (3) Theatre 563 Acting Studio (6) Theatre 570A,B Styles of Directing (12) Theatre 573 Seminar in Dramatic Literature (3) Theatre 575 Seminar: Theatre History (3) Theatre 597 Graduate Project (6) Theatre 599 Independent Research (3)
Take 12 units adviser-approved electives (includes 6 units technical coursework) 12 Total 60

Study Plan — Technical Theatre/Design

Students should concentrate their activities in two of the following four technical theatre areas during their two year course of study: scene design, costume design-makeup, lighting-sound, and technical production.

Course Requirement	s. less bus exopindent with wat w Units
Take all of the follo	
Theatre 477A Theatre 500 Theatre 575	Seminar in Critical Techniques (3) Introduction to Graduate Study (3) Seminar in Theatre History (3)
Take nine units fro	m the following:
Theatre 577 Theatre 578 Theatre 586 Take the following	Graduate Seminar: Stagecraft (3) Graduate Seminar: Costuming (3) Graduate Seminar: Scene Design (3) Graduate Seminar: Lighting (3) four times:
Theatre 588	Design and Tech Theatre (6)
Choose 12 adviser- theatre, art or e	approved units from technical courses in ngineering
Complete a creative	project in two of the four technical Project (3)

^{*}Based on a student's previous undergraduate or professional experience, substitutions or revisions in the study plan might be appropriate.

Dance Courses

101 Introduction to Dance (3) mail a social famo 2 sounds

Historical and contemporary dance forms. Experiences in various dance forms such as ballet, modern, jazz, folk, Afro, mime. Recommended for non-majors () selled Issless () become by

112 Beginning Classical Ballet (2)

The fundamental structure and technique of classical ballet. May be repeated once for credit. (4 hours activity)

122A,B Beginning Modern Dance (2,2)

Prerequisites: A is prerequisite to B. A — Exploration and manipulation of the instrument and materials of dance; development of aesthetic judgment. (4 hours activity) B — Expansion of A via more complex technique and composition studies; development of performance quality. May be repeated once for credit. (4 hours activity)

126 Dance Improvisation (2)

Theory and practice of improvisation in movement. Practical use of improvisation in expressing imagery, developing choreographic concepts, and enhancing performance. (4 hours activity)

132 Beginning Jazz Dance (2)

Modern jazz dance techniques and basic jazz choreography. (4 hours activity)

142 Beginning Tap Dance (2)

Structure and technique of tap dance and tap choreography. (4 hours activity)

212 Intermediate Classical Ballet (2)

Prerequisites: Dance 112 and audition. Intermediate level technique of classical ballet. May be repeated once for credit. (4 hours activity) (a) - Annual Committee of the Committee of the

222 Intermediate Modern Dance (3)

Prerequisites: Dance 122 and audition. Intermediate modern dance and movement vocabulary in terms of composition and communication. May be repeated for credit. (6 hours activity)

226 Rhythmic Analysis (3)

Musical form and structure; musically notating dance rhythms and percussion accompaniment.

232 Intermediate Jazz Dance (2)

Prerequisites: Dance 132 and consent of instructor. Intermediate level skills in jazz technique and choreography. (4 hours activity)

242 Intermediate Tap Dance (2)

Prerequisite: Dance 142 or consent of instructor. Intermediate skills in tap technique and choreography. (4 hours activity)

301 Dance and Cultural Diversity (3)

Prerequisites: Dance 101 or consent of instructor. Impact of various dance forms, from primitive time to modern, on diverse cultures. Contributions of immigrants, minorities and women to dance as a personal, social and cultural expression.

312 Advanced Classical Ballet (3)

Prerequisites: Dance 212 and audition. Stylization and performance of classical ballet. May be repeated once for credit. (6 hours activity)

323A,B Dance Composition (3,3)

A - Prerequisites: Dance 122, 126, or equivalents. Study of basic elements and forms of dance composition. B - Prerequisite: Dance 323A or consent of instructor. Problem solving studies in space, time, and energy, using choreographic devices in solo and group situations. Final project required. (6 hours activity)

324 Forces and Figures in Dance (3)

Prerequisite: consent of instructor. A history of dance from primitive times to the present.

325 Dance Theory and Criticism (3) Prerequisites: Dance 101, 122A or consent of instructor. Theory and criticism of dance. Comparison and relationship of dance principles and criticism among major dance genres, in addition to other art forms. Fulfills the course requirement for the university upper-division baccalaureate writing requirement for dance majors.

332 Advanced Jazz Dance (3)

Prerequisites: Dance 232 and consent of instructor. Advanced jazz techniques and choreography through grade three of professional jazz dance. The relation of jazz to other forms of dance. (6 hours activity)

336 Dance for Musical Theatre (3)

Prerequisites: Dance 112, 132, and audition, or consent of instructor. Dance utilized in musical theatre. Ensemble and individual approaches to the style. (6 hours activity)

Theatre 482 Acres for his fact of many A C88 372 Dance Kinesiology (3)

Structural aspects of the human body and factors that affect movement in dance.

412 Classical Pointe (3)

Prerequisites: Dance 312 and consent of instructor. Techniques for performance of classical pointe. May be repeated once for credit. (6 hours activity)

422 Advanced Modern Dance (3)

Prerequisites: Dance 222 and audition. Advanced level skills in modern dance. Emphasis on individual techniques. May be repeated for credit. (6 hours activity) galfamid - malf ybur?

423 Advanced Dance Composition (3)

Prerequisite: Dance 323A,B or equivalent. Elements and forms in dance composition. The choreographing of dances of concert quality. (6 hours activity)

424 Fundamentals of Dance Instruction (3)

Prerequisites: Dance 112, 222, 226, 323A, 372, and consent of instructor. Philosophies, techniques and methods for developing progressions in dance instruction.

425 Dance Repertory and Performance (3)

Prerequisites: Dance 212. Learning and rehearing choreography of established and/or new dance works with performance intent. May be repeated for credit. (6 hours activity)

471 Creative Dance for Children (3)

Prerequisite: Upper division standing. Methods and materials for teaching creative dance to children. (6 hours activity)

497 Production and Performance Projects in Dance (1-3)

Prerequisites: upper division standing and consent of instructor; application form with appropriate signatures must be on file in department office prior to registration. Projects which culminate in production or performance. May be repeated for credit.

499 Independent Study (1-3)

Prerequisites: upper division standing and consent of instructor; application form with appropriate signatures must be on file in department office prior to registration. Undergraduate research projects. May be repeated for credit.

Theatre Courses

100 Introduction to the Theatre (3)

For the general student leading to an appreciation and understanding of the theatre as an entertainment medium and as an art form. Recommended for non-majors.

110 Oral Communication of Literature (3)

The analysis and performance of literary works through the medium of oral interpretation. An emphasis upon understanding the content of communication in literature as well as the form. An exploration of the techniques involved in the discovery, critical evaluation and performance of various literary speakers. Meets the General Education requirement in Oral Communication for Theatre/Dance majors.

141A,B Voice/Movement for Stage (3,3)

(Formerly 241, 251, 341)

Prerequisites: Theatre 141 is prerequisite to 141B. Intensive training in the integral use of the voice and body for the actor; developing skills for vocal and physical relaxation, flexibility, and strength. May be repeated once for credit.

163 Acting for Non-Majors (3)

The form and content of acting: improvisation, action, motivation, and behavior. Recommended for non-majors. (6 hours activity)

180 Great Moments in Radio and TV (3)

Presentation and analysis of radio and television programs from 1926 to the present, including guest artists from the radio and television industry.

184 Introduction to Radio and Television (3)

The broadcasting industry and its impact and influence on our society. Broadcasting practices, audiences, production and

200 Art of the Theatre (3)

Theatre as an art form, involving the interrelated processes of playwriting, directing, acting, design and theatre management. Study of plays, films and television with emphasis on dramatic analysis and cultural significance. Required of all theatre majors.

263A,B Beginning Acting — Majors (3,3)

Prerequisite for 263B: Theatre 200, 141A, B and 263A. Improvisations, exercises, and techniques of acting for the stage. Motivation and behavior in characterization. (6 hours activity)

276A,B Beginning Stagecraft/Drafting (3,3)

Prerequisite: 276A is prerequisite to 276B. A — Planning and construction of stage and television scenery. Use of tools and stage equipment. B — Drafting and reading of technical drawings. Work in the scene shop for department productions is required for A and B. May be repeated for credit. (6 hours activity)

277 Costume Fundamentals (3)

Costuming theatrical and television productions. Construction techniques, organization and duties of the costume crew. (6 hours activity)

284 Introduction to Television Production (3)

The fundamentals of production for television. (6 hours activity)

285 Theatrical Makeup (3)

Makeup for stage and television. Individual skill in character analysis, application in pigment, plastic, hair, makeup, and selection and use of makeup equipment. (6 hours activity)

288 Design for the Theatre (3) Scene design, including script analysis, formation of visual concepts, floor plan development and model building for stage and television. (6 hours activity)

310 Oral Interpretation of Shakespeare (3)

Prerequisite: Upper division standing; Theatre 110 or consent of instructor. Development of techniques for oral interpretation of Shakespeare with special emphasis on the problems of verse.

315 Chicano/Latino Theatre (3)

(Same as Chicano Studies 315)

350 Stage Management (2)

Corerequisite: Theatre 370A. Backstage management, including interrelationships of production personnel for stage and television.

363A,B Intermediate Acting (3,3)

Prerequisites: Theatre 200, 141A,B, 263A,B and audition. Characterization; roles, special problems, and application of acting techniques through exercises and two-character scenes from the contemporary theatre. (6 hours activity)

364 Seminar in Playwriting (3)

Prerequisites: evidence of interest in creative writing and consent of instructor. Study of superior models, development of style, and group criticism and evaluation of independent work, as it relates to playwriting. May be repeated for credit.

365 Television Writing (3)

Prerequisite: English 101. The writing of scripts and other forms of continuity for television. May be repeated for credit.

370A,B Fundamentals of Directing (3,3)

Prerequisites: Theatre 263A, or consent of instructor. 370A is prerequisite to B. Prerehearsal problems and procedures, structural analysis of plays, composition, picturization, pantomimic dramatization, movement and rhythm on stage and in television. Practice in directing scenes. (6 hours activity)

377 Stage Costuming (3)

Fashions and textiles of major historical periods, methods of research; interpretation and communication of historical dress for theatrical statement.

379 Rendering for the Theatre (3)

Scenic and costume sketching and rendering for communication between production director and designers. Full scale costume and scenic painting required. Theoretical and actual production idea presentation and execution. (6 hours activity)

381 Radio and Television Announcing (3)

Prerequisite: Theatre 110. Control room operation, including practice in microphone and camera techniques. (6 hours activity)

384 Television Production and Direction (3)

Prerequisites: Theatre 284. Theory and practice in the production of television programs and announcements: the planning, organizing, directing, rehearsing, performing, recording and editing of television programs and announcements. (6 hours activity)

385 Advanced Theatre Makeup (3)

Prerequisite: Theatre 285. Problems in makeup including special techniques and materials: prosthetics, hairpieces, and masks for stage and television productions. (6 hours activity)

386 Beginning Lighting (3)

Theories of lighting for stage and television productions. (6 hours activity)

387 Audio Techniques (3)

Practice necessary to integrate live and recorded sound into performing arts productions. Recording, reproduction and studio techniques. (6 hours activity)

388 Historical Styles for Scene Design (3)

Visual survey through lecture and slides of architecture, interior design and furniture from ancient to modern times. Provides necessary basis for advanced design course.

402A,B Dramatic Activities for Children (3,3)

Prerequisite: Upper division standing. Creative dramatics as a tool for building and developing creative and socialized processes in children. A - Sense memory, movement/mime, dialogue, characterization, dramatization. B — Teaching techniques including concentration, imagination, dramatization, and improvisation for adolescents. (6 hours activity)

403A,B Theatre for Young Audiences (3,3)

Prerequisite: 403A prerequisite for 403B or consent of instructor. Theatrical production for an audience of children. A — Philosophy, theory and practice; B - Application of production principles. (6 hours activity)

410A Oral Interpretation of Prose Literature (3)

Prerequisite: upper division standing. Criticism and performance in the oral interpretation of prose literature.

410B Oral Interpretation of Poetry (3) to be be be a sequence of Year

Prerequisite: upper division standing. Criticism and performance in the oral interpretation of poetry.

410C Oral Interpretation of Drama (3)

Prerequisite: upper division standing. Criticism and performance in the oral interpretation of drama.

411 Oral Interpretation of Children's Literature (3)

Prerequisite: upper division standing. Oral presentation of children's literature in classroom, recreation and home situations including individual and group performance of fiction, nonfiction, fantasy and poetry.

436A,B Musical Theatre Workshop (3,3)

Prerequisites: Theatre 363B, Dance 336, and audition. Theatre 436A prerequisite to B. Roles and excerpts from musical theatre: the musical, dramatic, language and dance techniques. Scenes and musical numbers in workshop. A - Large group and solo work. B — Small group and audition material preparation. (6 hours activity) (6.6) stage (3.0) (6.141A.B. VoiceMovement for Stage (3.0)

443 Audition and Rehearsal Processes (3)

Prerequisites: Theatre 363A,B. Auditioning and rehearsal processes for professional work in theatre, television and film. Includes techniques for selecting material and performance preparation. (6 hours activity)

450 Theatre Management (3)

Oranizational principles of front-of-house and box office operation. Participation in School of the Arts public presentations. (3 hours lecture, 6 hours activity) and attenually seed 081

463A,B Advanced Acting (3,3)

Prerequisites: Theatre 310, Theatre 363A, B and audition. Historical theories and techniques of styles of acting. A - Greek through renaissance periods. B — The neoclassic periods to contemporary styles. (6 hours activity)

470A,B Advanced Directing (3,3)

Prerequisites: Theatre 288, 350, and 370A, B, or consent of instructor. Readings in theory, analysis of scripts and practice in directing plays for their oral and visual value as theatre. A -Each student directs a one-act play. B — Each student directs two one-act plays or equivalent. (6 hours activity)

475A,B,C,D,E World Theatre (3,3,3,3,3)

Prerequisite: upper-division standing. The historical and dramatic evolution of world theatre. A — Ancient Greece and Rome, Middle Ages; Italian renaissance; B — England from 1558-1790; 16th- and 17th-century Spain and France; C - 18th- and 19thcentury Europe and Russia; 19th-century England; D - 18thand 19th-century America; the Orient; the modern world; E -Historical background and contemporary view of the musical theatre.

477A Seminar in Critical Techniques (3)

Prerequisite: Theatre 200. Major critical theories in theatre.

477B Seminar in Writing Critical Techniques (3)

Prerequisite: Theatre 200. Practical criticism as applied to local dramatic productions. Fulfills the university upper-division baccalaureate writing requirement for theatre arts majors.

478A,B Production and Performance (2,2)

A — Performing in stage or television productions. B — Technical crew work on stage or television performances. One section of 478B per semester required of all theatre majors as well as nonmajors cast in theatre department productions. (More than 6 hours activity)

480 Television/Film Aesthetics and Criticism (3)

Prerequisites: Theatre 384 or consent of instructor. The nature of film and television; aesthetic and theoretical and critical bases for film and television evaluation and understanding.

482 Acting for Television (3)

Prerequisites: Theatre 363A,B. The adaptation of stage techniques for the camera; audition, rehearsal, and final performance, utilizing videotape and studio equipment. (6 hours activity)

483 Advanced Acting Workshop (3)

Prerequisites: Theatre 463A,B and audition. Extensive scene study, based on particular needs and problem areas of the advanced acting student. (6 hours activity)

484 Television Dramatic Techniques (3)

Prerequisites: Theatre 384 and consent of instructor. Techniques of production for the director, actor and designer in televised drama. (6 hours activity)

486 Advanced Lighting (3)

Prerequisites: Theatre 386 or consent of instructor. Design and technology of lighting for the stage and television. (6 hours activity) May be repeated for credit.

487 Advanced Audio Techniques (3)

Prerequisite: Theatre 387 or consent of instructor. advanced problems in the design and technology of live and recorded sound used in the performing arts. (6 hours activity)

488 Advanced Design and Technology (3)

Prerequisites: Theatre 276A, B, 277, 288 and consent of instructor. Advanced design, coordination of scenery and/or costume design projects for various types of theatres and television. May be repeated for credit.

489 Cable Television Production Workshop (3)

Prerequisites: six units of television production and consent of instructor. Practical experience in the creation of full-length television dramatic productions for cable broadcasting. May be repeated for credit. (6 hours activity)

495 Theatre Internship (3)

Consent of appropriate faculty supervisor. Supervised work experience in all areas of theatre to expand the dimensions of the classroom by integrating the formal academic training with direct application. Periodic seminar meetings to discuss work.

497 Production and Performance Projects in Theatre (1-3)

Prerequisites: upper division standing and consent of instructor; application form with appropriate signatures must be on file in department office prior to registration. Projects which culminate in production or performance. May be repeated for credit.

499 Independent Study (1-3)

Prerequisites: upper division standing and consent of instructor; application form with appropriate signatures must be on file in department office prior to registration. Undergraduate research projects. May be repeated for credit.

500 Introduction to Graduate Study in Theatre (3)

Methodological problems in graduate research. Location of source materials, including library and original data; interpretation of research and practice in scholarly writing. Must be taken the first semester after admission to graduate study.

501 Graduate Seminar: Advanced Theatre Theory (3)

Prerequisite: Theatre 500. Directed research; the relationship between historical backgrounds and developments in the theatre and the student's area of concentration.

563 Acting Studio (6)

Prerequisite: audition. Re-creation and interpretation of roles utilizing period and contemporary dramatic literature, interrelating voice, movement, characterization and period style acting. Enrollment limited to M.F.A. students. May be repeated for credit.

566 Graduate Seminar: Stagecraft (3)

Prerequisite: consent of instructor. Advanced theories in the preparation and installation of scenery for theatrical production; engineering drawings, exploration of materials, and research into new methods of theatre technology. May be repeated for credit up to six units.

570A,B Styles of Directing (3,3)

Prerequisites: Theatre 470A,B or consent of instructor. Research in the theories of directing styles and practice in directing period plays. A — Staging problems from Greek tragedy through the Restoration. B — Staging problems from recent classical work (Ibsen, Strinberg, Chekhov) to present. May be repeated once for credit.

573 Seminar in Dramatic Literature (3)

Directed research and criticism in the examination of contributions of major dramatists or dramatic genres. Emphasis on dramatic analysis. Topics will vary from semester to semester. May be repeated for credit.

575 Seminar in Theatre History (3)

Directed research and criticism in the examination of a significant historical period or movement in theatre history. Topics will vary from semester to semester. May be repeated for credit.

577 Graduate Seminar: Costuming (3)

Prerequisite: consent of instructor. Costume production problems and their solutions. Examination of specific designers, past and present. Research in pratical methods of interpreting the deisgner's sketch. May be repeated for credit up to six units.

578 Graduate Seminar: Scene Design (3)

Prerequisite: consent of instructor. Scenic design projects involving in-depth production style and scheme development. May be repeated for credit *up to six units*.

583 Graduate Seminar: Acting (3)

Prerequisites: Theatre 463A,B. Investigation and delineation of current acting methods as techniques for solving problems presented by popular dramatic literature. Development of a personal acting philosophy and methodology. May be repeated once for credit.

586 Graduate Seminar: Lighting Design (3)

Prerequisite: consent of instructor. Advance theoretical lighting design projects. Production problems and their solutions. Examination of specific designers, past and present. May be repeated for credit *up to six units*.

Prerequent Seminar: Stagescraft (3) but undined to look for during the look of the present of instruction Advanced theories in the

588 Graduate Projects in Design and Technical Theatre (6)

Theoretical projects and designs for productions prior to final projects. Faculty and student critiques. Tailored to individual student needs. Enrollment limited to M.F.A. students.

597 Project (1-3)

Prerequisites: consent of instructor, student's graduate committee and department executive committee. Development and presentation of a creative project beyond regularly offered coursework. May be repeated for credit up to six units. Student must complete course application form by the end of the seventh week of the semester preceding that in which the work is to be done.

598 Thesis (3)

Prerequisites: consent of student's graduate committee; application form with apropriate signatures must be on file in department office prior to registration. Development and presentation of a thesis in the student's area of concentration.

599 Independent Graduate Research (1-3)

Prerequisites: consent of student's graduate committee and instructor; application form with appropriate signatures must be on file in department office prior to registration. Research in theatre. May be repeated for credit.

Theatre Education Courses

442 Teaching Theatre in the Secondary School (3)

Prerequisite: admission to teacher education. Objectives, methods and materials for teaching in the secondary school.

449E Externship in Secondary Teaching (3)

See description under Department of Secondary Education.

449I Internship in Secondary Teaching (10)

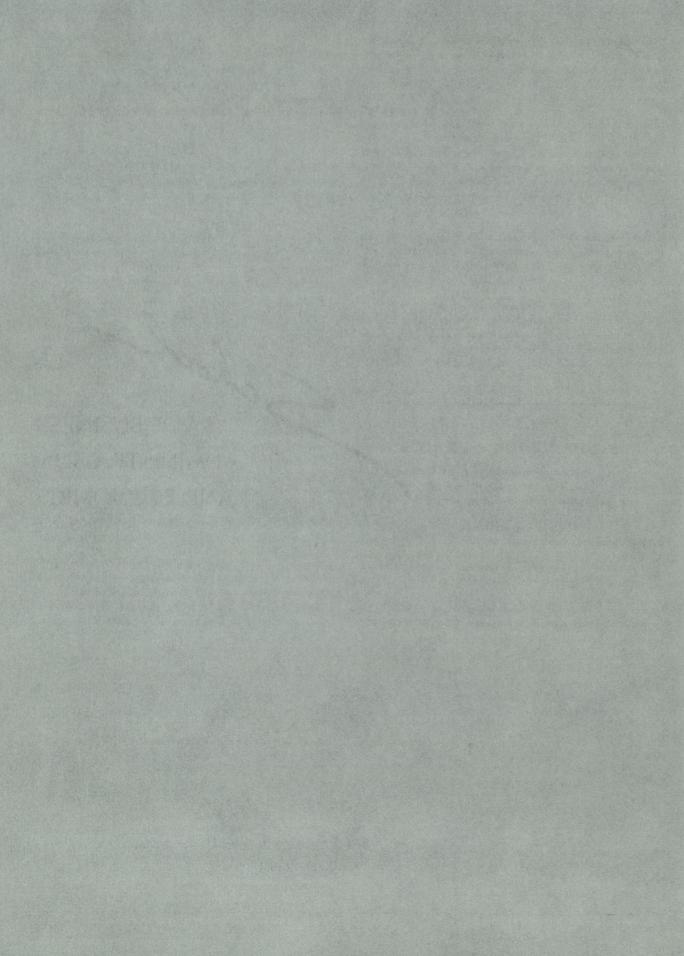
See description under Department of Secondary Education.

449S Seminar in Secondary Teaching (2)

See description under Department of Secondary Education.

486 Advanced Lighting (3) are ranged assessment of instructor Design and Prerequisites: Theane 386 or consent of instructor Design and

OF BUSINESS ADMINISTRATION AND ECONOMICS



School of Business Administration and Economics



Dean: Ephraim P. Smith Associate Deans: Dorothy Heide, Undergraduate Programs (Vacant), Graduate Programs Keith Lantz, Development

Programs Offered

Bachelor of Arts in Business Administration

Concentrations in:

The School of Bushees Administration and Econognitive School of Bushees Administration and Econo

Business Economics

Assembly of Collectate Schools of Bounes A core spanned

Management and granewood yourse to senso sucroger is some

Management Information Systems

Management Science

Marketing

Bachelor of Arts in Economics

Bachelor of Arts in International Business

Concentrations in:

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German (dosobled?" see "Philosophi market for the "Philosophi and thou

Japanese

Portuguese

Spanish done of the property of the property of the property of

Other Languages Mandault Statement base propagation A

Minor in Business Administration currench. In each of these areas alw is

Minor in Economics

Minor in Management Information Systems

Master of Science in Accountancy

Master of Business Administration

Concentrations in:

Accounting

Business Economics

Finance

International Business Management respects academic and research

Management Science

Marketing

Master of Arts in Economics and a demonds reliable beau

Master of Science in Management Science

Concentrations in: I ad asset the sold said visit a roop of the

Management Information Systems

Operations Research

Statistics

Master of Science in Taxation

INTRODUCTION

Programs of study in the School of Business Administration and Economics equip men and women with the intellectual and professional tools needed to assume responsible positions in business, industry, education, government, and social service. The school offers a broad exposure to business administration and economics. Behavioral and quantitative sciences are studied in both theoretical and applied contexts. Mathematics is used as a key tool in the analysis of complex problems and in the interpretation of data. Emphasis is placed on effective oral and written communication. Students are made aware of the need for imaginative, innovative solutions to business problems that encompass human needs and ethical objectives.

The school provides the opportunity to develop technical expertise in a chosen discipline at a beginning professional level acceptable to prospective employers. Seven concentrations are offered within the business administration major as well as an economics major, an international business major and a business education credential program.

The School of Business Administration and Economics offers the only programs in Orange County accredited by the American Assembly of Collegiate Schools of Business. Accreditation assures a rigorous course of study covering the full spectrum of business administration. It also indicates a well-qualified faculty, high standards for students, and access to computing and an extensive library system.

Mission Statement

The University's Mission has three major elements: (1) excellence in instruction, (2) actively involved faculty, and (3) support for the instructional mission (see "Philosophy and Objectives" section of this catalog).

In support of the University's Mission, the School of Business Administration and Economics has built its Mission around its students and faculty as well as university service and community outreach. In each of these areas, the School will pursue specific goals:

- Students: Provide students with opportunity to obtain an education that will enable them to grow intellectually, personally and professionally throughout life.
- Faculty: Foster an intellectual climate that supports faculty in their efforts to advance and convey knowledge and learning through their teaching and research, recognizes differing viewpoints, respects academic and personal freedom and promotes teaching innovation.
- Students and Faculty: Attract and retain a diverse student body and faculty through a collegial environment that endorses social responsibility and accountability, honesty and equity, and supports activities that enhance the learning opportunity.

- Outreach: Encourage outreach activities that address community, regional and world needs.
- Service: Support faculty involvement in collegial governance and shared decision-making processes.

Preparation for Undergraduate Degree Programs

Algebra and geometry are necessary for many required business courses. The equivalent of three years of high school mathematics, including a second course in algebra, is the prerequisite for the required Math 135 Business Calculus. Students without the necessary background should enroll in Math 115 College Algebra.

Proficiency in written English is essential to all college courses. Students should plan to take the written English component of General Eduation as soon as possible and take the English Writing Proficiency (EWP) examination while juniors.

Business students are encouraged to take courses in sociology, psychology, anthropology, speech communication, political science, history, philosophy, geography and foreign languages. Many courses in these fields may be used to meet general education requirements. For the international business degree, intermediate level competency in a foreign language, equivalent to Foreign Language 204 courses, is prerequisite to the required concentration courses. It is strongly recommended that students planning to major in international business complete a minimum of three years of foreign language study while in high school.

Business Advising Center Langsdorf Hall, Room 700

Undergraduate Program Advising

The Business Advising Center serves business administration, economics and international business majors. Information is available on admissions, curriculum and graduation requirements, as well as on registration and grading procedures, residence and similar academic matters. Transfer students should see an adviser immediately regarding transfer credit. For information on general education, consult the Academic Advisement Center in the Humanities Building.

Graduate Program Advising

The graduate adviser (in the Business Advising Center) provides academic advising for the graduate programs in accountancy, business administration, management science and taxation. Information is available on admissions, curriculum and graduation requirements, as well as on registration procedures, residence and similar academic matters. For information on admission, curriculum and graduation requirements for the M.A. in Economics, see the graduate program coordinator in the Economics Department. Students also should consult the faculty coordinators for the programs in accountancy, management science and taxation.

Transfer Credit for Business and Economics Courses

Students should see an adviser immediately regarding transfer credit. College level courses successfully completed at another college or university may be applied towards the requirements of the SBAE subject to the approval of the appropriate department chair. Lower division courses completed at an appropriately accredited institution with a grade of "C" or better that are equivalent in content and level may be considered. Upper division transfer courses will be considered if the course is (a) equivalent in content and level, (b) completed with a grade of "C" or better, and (c) taught in an American Assembly of Collegiate Schools of Business accredited program. Exceptions require thorough documentation evidencing the above standards. Lists of approved equivalent courses from local community colleges are available in the Business Advising Center. All other courses are subject to approval by the department chair concerned. In these cases, the student must supply catalog descriptions, course outlines and textbook titles. Courses taken in the extension division of another university, or by correspondence, are generally not acceptable.

Internships and Cooperative Education

Students may earn academic credit, first-hand work experience and financial remuneration as well. Opportunities exist in accounting and auditing; cost-benefit analysis and econometrics; finance and real estate; insurance and banking; management and industrial relations; marketing, sales and advertising; and business data systems. For more information, consult the internship adviser in your department or in the Center for Internships and Cooperative Education.

Student Organizations

Chapters of the following national honor societies have been established on campus with membership open to qualified students: Beta Alpha Psi (accounting), Beta Gamma Sigma (business), Delta Sigma Pi (business), Financial Management Association Honor Society (finance), Omicron Delta Epsilon (economics), Phi Kappa Phi (all-campus), Pi Sigma Epsilon (marketing). In addition there are the following clubs which students are encouraged to join: Accounting Society, AIESEC, APICS (American Production and Inventory Control Society Management), Black Business Students, Data Processing Management Association, Economics Association, Finance Association, Inter-Club Council, American Marketing Association, Personnel and Industrial Relations Association (management), Personnel Management Association of Aztlan, Rho Epsilon (real estate-finance), Securities and Investment Association, and The Institute of Management Science. cal skills. Emphysis is placed on the development of a contessional

Prizes in Business Administration and Economics

Stephen J. Barres Leadership Award
Theodore H. Smith Outstanding Graduate Student Award
Executive Council Outstanding Student Award
Executive Council Outstanding Faculty Award
See also awards listed under each department.

For additional information on awards and scholarships available to business students, contact the office of the Dean, Langsdorf Hall 700.

Computer Facilities

The CSUF Computer Center in McCarthy Hall and the SBAE Satellite Computer Laboratory in Langsdorf Hall are available for student use. Facilities include terminals (which access the campus' main computers), microcomputers, and printers. Computer facilities are generally available evenings and weekends during the school year.

Information on the Degree Requirements

Accountancy, Master of Science
See "Department of Accounting"

Business Administration, Bachelor of Arts
Business Administration, Master of Business Administration
Business Administration, Minor
See "Business Administration Degrees"

Economics, Bachelor of Arts
Economics, Master of Arts
Economics, Minor
See "Department of Economics"

International Business, Bachelor of Arts
See "International Business Program"

Management Information Systems, Minor See "Management Information Systems"

Management Science, Master of Science
See "Department of Management Science"

Taxation, Master of Science
See "Department of Accounting"

Department of Accounting

Chair: Ephraim Smith

Department Office: Langsdorf Hall 630

Programs Offered

Bachelor of Arts in Business Administration

Concentration in Accounting

Master of Science in Accountancy

Master of Business Administration

Concentration in Accounting

Master of Science in Taxation

Faculty

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Advisers

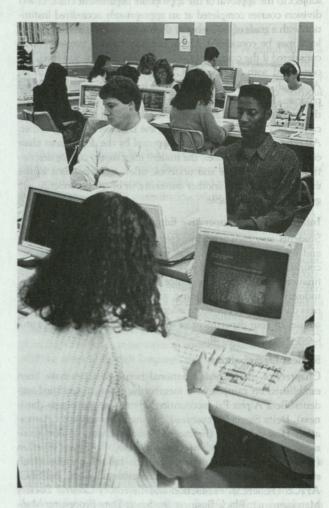
The Business Advising Center, Langsdorf Hall 700, provides information on admissions, curriculum and graduation requirements; registration and grading procedures; residence and similar academic matters. In addition, the Accounting Department provides advising on curriculum content and career opportunities:

Accounting CPA Examination Keith W. Lantz Taxation Clyde Hardman

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INTRODUCTION

Accounting is often referred to as "the language of business." Very generally, the accounting process is concerned with recording, classifying, reporting and interpreting the economic data of an organization. These data are important to users, who may include managers, investors and other interested groups. Accounting helps in decision-making processes by showing how money has been spent and where commitments have been made, by judging performance and by showing the implications of following different courses of action. Reliable information in a dynamic business environment is necessary for sound decisions concerning the allocation of scarce resources. Thus accounting plays a very significant part in our social and economic systems.



Programs in accounting are designed for students who are interested in careers in public accounting, industry, government, or social accounting, and for students who intend to work for advanced degrees in accounting in preparation for teaching and research.

Accounting 503 Seminar in Contemporary A Credential Information (6) ampliced to

The Department of Accounting offers courses which may be included in the Single Subject Waiver Program in Business. Further information on the requirements for teaching credentials is contained in the Teacher Credential Programs section of this catalog. Crade Digiti reconnected Action of the Commence Accommission of the Commen

Prizes in Accounting

Outstanding Senior Award

Amy Vanasse Memorial Award Arthur Andersen & Co. BDO Seidman Coopers & Lybrand Deloitte & Touche Ernst & Young
Frazer & Torbet Grant Thornton Co. Telephone A Manual Construction of the Construc Kenneth Leventhal & Co. Hugh Saddington & Co. KPMG Peat, Marwick, Main & Co. McGladrey & Pullen Moss Adams National Association of Accountants, O.C. Chapter Price Waterhouse Assignment of the School Service Serv

BACHELOR OF ARTS IN BUSINESS ADMINISTRATION Is seem bloods resmong noticed in 7. M

See "Business Administration Degrees, Accounting Concentra-The Most of the second of the Most of the

MASTER OF SCIENCE IN ACCOUNTANCY

The Master of Science in Accountancy program provides the conceptual understanding and technical competence for a career in professional accounting. Employment opportunities include public accounting, industrial accounting and government. The program encompasses both a theoretical foundation and technical skills. Emphasis is placed on the development of a professional attitude and the capacity to deal with issues of accounting policy and ethics. Graduates should be prepared for entry-level positions, and for potential advancement in the profession.

The M.S. in Accountancy program is scheduled especially for students who are employed full time. Courses are offered during the late afternoon and evening. Most students enroll on a parttime basis, taking two courses (6 units) per semester.

The curriculum is designed for students with an undergraduate degree in business administration with a concentration in accounting. In addition to seven accounting courses, there are two electives and a terminal, research-project course.

Cal State Fullerton is the only university in Orange County accredited by the American Assembly of Collegiate Schools of Business at both the undergraduate and graduate level. This assures a rigorous program, a well qualified faculty, high standards for students, and access to an extensive library system. The qualifications of the M.S. in Accountancy faculty include advanced degrees in taxation, accounting, and law; practical tax experience; and professional standing as CPAs and attorneys.

Most graduate courses in the School of Business Administration and Economics require "classified SBAE status" and are open only to students with classified standing in the M.B.A., M.S. in Accountancy, M.S. in Taxation, M.S. in Management Science, or M.A. in Economics programs.

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Students meeting the following requirements will be admitted to postbaccalaureate unclassified standing.

- 1. Acceptable bachelor's degree from an institution accredited by a regional accrediting association, or equivalent.
- 2. Grade-point average of at least 2.5 in the last 60 semester units attempted and in good standing at the last college atto tended. The management of the management of the second of the

Note: Postbaccalaureate unclassified students may enroll in undergraduate courses (100 through 400 level) but generally are ineligible for graduate business courses (500 level). Such students may wish to take undergraduate courses which are necessary to meet the requirements for classified standing (see below). Upon completing the requirements, the student may file an "Application for Change of Academic Objective — Graduate" requesting admission to the M.S. in Accountancy program. Admission to the university as a postbaccalaureate unclassified student does not constitute admission to the M.S. in Accountancy program, does not confer priority, nor does it guarantee future admission. Students planning to apply for admission to the M.S. in Accountancy program should confer with the graduate adviser in the School of Business Administration and Economics.

Students meeting the following additional requirements may be admitted to the M.S. in Accountancy program with conditionally classified standing: If I made 15 wol sobres drive 200000

3. Combination of GPA and score on the Graduate Management Admission Test (GMAT) sufficient to yield a score of at least 950 according to one of the following formulas. Due to limited facilities and resources in the School of Business Administration and Economics, a higher score is usually required of all applicants.

- If overall undergraduate GPA is at least 2.5 and GMAT is at least 450, then score = $(GPA \times 200) + GMAT$.
- B. If overall undergraduate GPA is below 2.5 or GMAT is below 450, then score = $(GPA \times 200) + GMAT - 50$.
- C. If GPA is based on the last 60 semester units of course work* then score = $(GPA \times 200) + GMAT - 100$.

*All work within any given quarter or semester must be included even though that will result in more than 60 semester units. The units to be included in the last 60 semester units may come only from the following: (1) work taken in postbaccalaureate status during the last seven years toward fulfilling M.S. in Accountancy course work requirements; (2) units taken under a prescribed remedial program agreed to by the associate dean, School of Business Administration and Economics; (3) units earned prior to the bachelor's degree.

Note: To be admitted as conditionally classified students, applicants must be within three courses (or 10 units) of meeting the requirements for classified standing (see below). Such courses must be completed within the first 12 months of study. Students who do not do so will not be allowed to continue in the program. Conditionally classified students may take a limited number of graduate courses (500 level) subject to the approval of the graduate adviser of the School of Business Administration and Economics. Applicants with a bachelor's degree in a field other than business administration (or whose deficiency is greater than three courses) should apply for the Master of Business Administration program. Upon completion of the M.B.A. foundation courses and Business Administration 590, an application for a change of objective may be filed for transfer to the M.S. in Accountancy program. The remainstant balkers and adequate and sold sold

Students meeting the following additional requirements will be advanced to classified standing. Such students are eligible to take graduate courses for which they qualify.

- 4. A bachelor's degree with a major in business administration and a concentration in accounting which meets the requirements stated in this catalog for such degrees. The degree must include calculus and computer programming equivalent to passing Mathematics 135, Business Calculus (3 units), and Management Science 265, Introduction to Information Systems and Computer Programming (3 units), with a minimum C grade. Courses in the major are to be no more than seven years old, and courses in the accounting concentration no more than five years old. Courses in the major (including the accounting concentration) must have at least a 3.0 (B) GPA. Courses with grades lower than C must be repeated.
- 5. Approval of study plan. ASO to contembor of

Curriculum

The curriculum requires 30 semester units of course work beyond the baccalaureate degree. At least 24 of the 30 units required for the degree must be at the graduate level. A GPA of 3.0 (B) is required. Any study plan course in which a D is received must be repeated and must receive at least a C grade regardless of the overall GPA of the student. and for sind on si

Required Courses

Seminar in Accounting Theory (3) Accounting 502 Accounting 503 Seminar in Contemporary Accounting

Problems (3)

Accounting 505 Seminar in Auditing (3)

Accounting 506 Seminar in Professional Accounting Communications (3)

Accounting 507 Seminar in Acctg. Information Systems (3)

Accounting 521 Seminar in Admin. Accounting (3)

Accounting 572 Seminar in Taxation of Corporations and Shareholders (3)

Electives in Accounting or Related Business Fields

Two courses (6 units) at the 400 or 500 level, to be selected in consultation with, and approved by, the program coordinator.

Terminal Evaluation

Accounting 597 Project (3)

MASTER OF BUSINESS ADMINISTRATION

See "Business Administration Degrees, Accounting Concentration."

MASTER OF SCIENCE IN TAXATION

The Master of Science in Taxation program provides the conceptual understanding and technical competence for a career in taxation. Employment opportunities include the tax departments of CPA and law firms, as well as corporations and government tax agencies. For those already employed in this field, the M.S. in Taxation program should meet the continuing education requirements of professional associations and licensing boards.

The M.S. in Taxation program is scheduled especially for students who are employed full time. Courses are offered during the late afternoon and evening. Most students enroll on a part-time basis, taking two courses (6 units) per semester.

The curriculum is designed for students with an undergraduate degree in business administration. In addition to six courses in the field of taxation, there are three electives and a terminal, research-project course.

Cal State Fullerton is the only university in Orange County accredited by the American Assembly of Collegiate Schools of Business at both the undergraduate and graduate level. This assures a rigorous program, a well qualified faculty, high standards for students, and access to an extensive library system. The qualifications of the M.S. in Taxation faculty include advanced degrees in taxation, accounting, and law; practical tax experience; and professional standing as CPA's and attorneys.

Most graduate courses in the School of Business Administration and Economics require "classified SBAE status" and are open only to students with classified standing in the M.B.A., M.S. in Accountancy, M.S. in Taxation, M.S. in Management Science, or M.A. in Economics programs.

Admission

Students meeting the following requirements will be admitted to postbaccalaureate unclassified standing:

- 1. Acceptable bachelor's degree from an institution accredited by a regional accrediting association, or equivalent.
- 2. Grade-point average of at least 2.5 in the last 60 semester units attempted and in good standing at the last college attended.

Note: Postbaccalaureate unclassified students may enroll in undergraduate courses (100 thru 400 level) but are generally ineligible for graduate business courses (500 level). Such students may wish to take undergraduate courses which are necessary to meet the requirements for classified standing (see below). Upon completing the requirements, the student may file an "Application for Change of Academic Objective Graduate" requesting admission to the M.S. in Taxation program. Admission to the university as a postbaccalaureate unclassified student does not constitute admission to the M.S. in Taxation program, does not confer priority, nor does it guarantee future admission. Students planning to apply for admission to the M.S. in Taxation program should confer with the graduate adviser in the School of Business Administration and Economics.

Students meeting the following additional requirements will be admitted to the M.S. in Taxation program with conditionally classified standing:

- 3. Combination of GPA and score on the Graduate Management Admission Test (GMAT) sufficient to yield a score of at least 950 according to one of the following formulas. Due to limited facilities and resources in the School of Business Administration and Economics, a higher score may be required of all applicants.
 - A. If overall undergraduate GPA is at least 2.5 and GMAT is at least 450, then score = (GPA x 200) + GMAT.
 - B. If overall undergraduate GPA is below 2.5 or GMAT is below 450, then score = $(GPA \times 200) + GMAT - 50$.
 - C. If GPA is based on the last 60 semester units of course work' then score = $(GPA \times 200) + GMAT - 100$.

ing: (1) work taken in postbaccalaureate status during the last seven years toward fulfilling M.S. in Taxation course work requirements; (2) units taken under a prescribed remedial program agreed to by the Associate Dean, School of Business Administration and Economics; (3) units earned prior to the bachelor's degree.

Note: To be admitted as conditionally classified students, applicants must be within three courses (or 10 units) of meeting the requirements for classified standing (see below). Such courses must be completed within the first 12 months of study. Students who do not do so will not be allowed to continue in the program. Conditionally classified students may take a limited number of graduate courses (500 level) subject to the approval of the graduate adviser of the School of Business Administration and Economics. Applicants with a bachelor's degree in a field other than business administration (or whose deficiency is greater than three courses) should apply for the Master of Business Administration program. Upon completion of the M.B.A. foundation courses and Business Administration 590, an application for a change of objective may be filed for transfer to the M.S. in Taxation program.

Students meeting the following additional requirements will be advanced to classified standing. Such students are eligible to take graduate courses for which they qualify.

- 4. A bachelor's degree with a major in business administration which meets the requirements stated in this catalog for such degrees, and Accounting 308, Concepts of Federal Income Tax Accounting (or an equivalent course or work experience). The degree must include calculus and computer programming equivalent to passing Mathematics 135, Business Calculus (3 units), and Management Science 265, Introduction to Information Systems and Computer Programming (3 units), with grades of at least C. Courses in the major are to be no more than seven years old and must have at least a 3.0 (B) GPA. Courses with grades lower than C must be repeated.
- 5. Approval of study plan. Study plan.

Curriculum

The curriculum requires 30 semester units of course work beyond the baccalaureate degree. At least 21 of the 30 units required for the degree must be at the graduate level. A GPA of 3.0 (B) is required. Any study plan course in which a D is received must be repeated and must receive at least a C grade regardless of the overall GPA of the student.

Required Tax Course

Accounting 470 Tax Research, Practice and Procedures (3)

Electives in Taxation and Related Fields

Five courses (15 units) to be selected in consultation with, and approved by, the student's adviser.

^{*}All work within any given quarter or semester must be included even though that will result in more than 60 semester units. The units to be included in the last 60 semester units may come only from the follow-

Available courses include but are not limited to:

Problems in Taxation (3) Accounting 408

Seminar in Tax Planning (3) Accounting 508

Seminar in Taxation of Corporations and Accounting 572 Shareholders (3)

Accounting 573 Seminar in Taxation of Property Transactions (3)

Accounting 574 Seminar in Taxation of International Business Operations (3)

Seminar in Estate, Gift and Inheritance Accounting 575 Taxes and Estate Planning (3)

Accounting 576 Seminar in State & Local Taxation (3)

Accounting 577 Seminar in Taxation of Employee Compensation (3)

Accounting 578 Seminar in Taxation of Partnerships (3)

Other Electives

Courses are to be selected in consultation with, and approved by, the student's adviser.

One course (3 units) in either economics or political science and two courses (6 units) in either business or non-business fields.

Note: recommended courses in economics and political science include Econ 517, Poli Sci 421, 519, 528.

Terminal Evaluation

Accounting 597 Project (3)

Accounting Courses

201A Financial Accounting (3)

Prerequisite: None. Accounting concepts and techniques essential to the administration of a business enterprise: analyzing and recording financial transactions; accounting valuation and allocation practices; preparation, analysis and interpretation of financial statements; international accounting issues. Instructional fee required. (Not open to freshmen)

201B Managerial Accounting (3)

Prerequisite: Accounting 201A. Introduction to managerial accounting; product costing; budgetary control and responsibility accounting; analysis and techniques for aiding management planning and control decisions; basic income tax concepts for planning business transactions. (Not open to freshmen)

301A,B Intermediate Accounting (3,3)

Prerequisites for 301A: Accounting 201B, a passing score on the accounting qualifying examination, and completion of all lower division business administration core courses with grades of at least C in each course. Prerequisite for 301B: A grade of C or better in Accounting 301A. Accounting theory; preparation of income statements, balance sheets and statements of changes in financial position; present value and amount concepts; assets, liabilities and stockholders equity; price-level accounting; pensions; leases; earnings per share; financial statement analysis; accounting changes and error analysis.

302 Cost Accounting (3)

Prerequisites: Accounting 201B, a passing score on the accounting qualifying examination, and completion of all lower division business administration core courses with grades of at least C in each course, or a grade of C or better in 301A. Accounting information for management of manufacturing enterprises; cost records; cost behavior and allocation; product costing and inventory valuation; flexible budgeting; standard costs; responsibility accounting; cost planning and control; and operating decision analysis. It is a property the requirements for the comment of the requirements for the requirements of th

303 Accounting for Governmental & Nonprofit Entities (3) (Formerly 403)

Prerequisite: Accounting 201B or equivalent with a grade of C or better. Fund accounting as applied to governmental and nonprofit entities; state and federal governments, municipalities, hospitals and universities. Budgets, tax levies, revenues and appropriations, expenditures and encumbrances, various types of funds, and accounting statements.

308 Concepts of Federal Income Tax Accounting (3)

Prerequisites: Accounting 201B, a passing score on the accounting qualifying examination, and completion of all lower division business administration core courses with grades of at least C in each course, or a grade of C or better in 301A. Provisions, legislative history and implications of the federal income tax.

358 Principles of Taxation (3)

Prerequisites: Accounting 201A or instructor permission. The federal tax system, federal income taxation relating to federal tax system, federal income taxation relating to individuals, corporations, partnerships, and fiduciaries. Federal estate and gift taxes. Not open to accounting majors.

401 Advanced Accounting (3) Prerequisite: Accounting 301B with a grade of C or better. Business combinations; meaning, usefulness and methodology of consolidated financial statements; investments in non-subsidiary affiliates and corporate joint ventures; consolidated financial statements for overseas units of U.S.-based multinational companies; translations of foreign currencies.

402 Auditing (3) mod sayolgma to motocall at a sounce 1772

Prerequisites: Accounting 301B and 302 with a grade of C or better. The auditing standards and procedures used by financial and operational auditors. Management information and computer systems, internal control, audit evidence, professional responsibilities and legal liabilities, standards of reporting financial information.

407 Accounting Information Systems (3)

Prerequisites: Accounting 301A and 302 with a grade of C or better and Management Science 265 or equivalent. Alternative accounting systems used for the collection, organization and presentation of information. Theory and practice of information processing, organizational, behavioral and mechanical.

408 Problems in Taxation (3)

Prerequisite: Accounting 308 with a grade of C or better. Federal income tax as it applies to corporations, partnerships, fiduciaries, and federal estate and gift taxes as they apply to taxable transfers.

470 Tax Research, Practice and Procedures (3)

Prerequisite: Accounting 308 with a grade of C or better. The methodology of tax research including case studies; the management of a tax practice; administration procedures governing tax controversies; rights and obligations of taxpayers and tax practitioners.

495 Internship (1-3)

Prerequisites: Accounting 301B (may be taken concurrently), Accounting 302, a major in accounting, consent of the department internship adviser, and at least junior standing, 2.5 GPA and one semester in residence at the university. Planned and supervised work experience. May be repeated for credit up to a total of six units. Credit/No Credit only.

499 Independent Study (1-3)

Prerequisites: senior standing and approval of department chair. Open to qualified undergraduate students desiring to pursue directed independent inquiry. May be repeated for credit. Not open to students on academic probation.

502 Seminar in Accounting Theory (3)

Prerequisites: Accounting 301B, classified SBAE status and consent of instructor. The effects of professional, governmental, business, and social forces on the evolution of accounting theory.

503 Seminar in Contemporary Accounting Problems (3)

Prerequisite: classified M.S. in Accounting status or consent of instructor. Current issues in financial reporting including pronouncements by the Financial Accounting Standards Board and the Securities and Exchange Commission. Coverage of topics will change as new issues in accounting emerge.

505 Seminar in Auditing (3)

Prerequisites: Accounting 402 and classified SBAE status. Auditing theory and practices; professional ethics; auditing standards; Securities and Exchange Commission and stock exchange regulations; auditor's legal liability; statement trends and techniques.

506 Seminar: Professional Accounting Communications (3)

Prerequisite: classified M.S. in Accounting status or consent of instructor. Compilation and composition of accounting reports and client presentations relating to accountants' working papers, client engagement letters, management advisory reports and prospectuses.

507 Seminar in Accounting Information Systems (3)

Prerequisite: Accounting 407, or equivalent with consent of instructor. Case studies of computer based accounting systems used by organizations such as universities, banks, industrial corporations and CPA firms. Emphasis on accounting information, reports and internal controls.

508 Seminar in Tax Planning (3)

Prerequisites: Accounting 308 and classified SBAE status, or consent of instructor. Substantive provisions of federal law; tax planning from a corporate viewpoint; case studies of the effect of federal tax law on business decisions.

510 Financial Accounting (3)

Prerequisite: classified SBAE status. Accumulation, organization, and interpretation of financial and quantitative data relevant to the activities of corporate business enterprise. Instructional fee required.

511 Seminar in Managerial Accounting (3)

Prerequisites: Accounting 201B or 510, consent of instructor and classified SBAE status. Accounting information for management decisions; elements of manufacturing, distribution and service costs; cost systems; standard costs; cost reports; cost analysis.

518 Seminar in International Accounting (3)

Prerequisites: Accounting 201B or 511 and classified SBAE status. Comparative analysis of accounting principles and practices outside the United States; international financial accounting standards; current problems of international financial reporting, accounting planning and control for international operations; multinational companies.

521 Seminar in Administrative Accounting (3)

Prerequisites: Accounting 302 or 511; classified SBAE status and consent of instructor. Integrative aspects of accounting, financial, and quantitative data for managerial decision-making; long-term, short-term profit planning; budgetary control; cost analysis; financial analysis and planning; taxation; and transfer pricing.

572 Seminar in Taxation of Corporations & Shareholders (3)

Prerequisites: Accounting 308 and classified SBAE status, or consent of instructor. Federal taxation relating to corporations; organizing, distributions, liquidations and reorganizations.

573 Seminar in Taxation of Property Transactions (3)

Prerequisites: Accounting 308 and classified SBAE status, or consent of instructor. Federal taxation relating to sales, exchanges and other transfers.

574 Seminar in Taxation of International Business Operations (3)

Prerequisites: Accounting 308 and classified SBAE status, or consent of instructor. Federal taxation relating to U.S. citizens and corporations with foreign source income and of foreign persons with U.S. source income; planning for foreign operations.

575 Seminar in Estate, Gift, Inheritance Taxes and Estate Planning (3)

Prerequisites: Accounting 308 and classified SBAE status, or consent of instructor. Federal and California death taxes and the planning of personal estates.

576 Seminar in State and Local Taxation (3)

Prerequisites: Accounting 308 and classified SBAE status, or consent of instructor. Application of interstate income allocations; multi-state tax compact; separate v. apportionment accounting; foreign country sourced income. Also, California taxes as applied to businesses and individuals.

577 Seminar in Taxation of Employee Compensation (3)

Prerequisites: Accounting 308 and classified SBAE status, or consent of instructor. Federal taxation relating to employee compensation including pensions and profit sharing, stock options, ESOP's, IRA's, Keogh's, maximum tax 5-year averaging, death benefits, group term life, etc.

578 Seminar in Taxation of Partnerships (3)

Prerequisites: Accounting 308 and classified SBAE status, or consent of instructor. Federal taxation relating to partnerships, estates, trusts and other special entities.

597 Project (3)

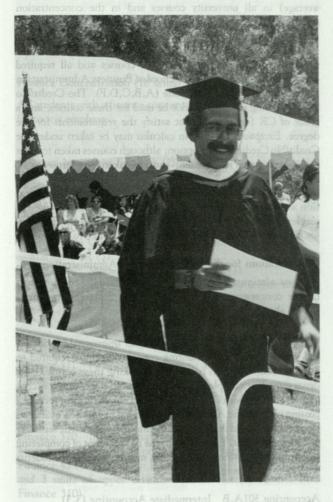
Prerequisite: classified SBAE status. Directed independent inquiry. Not open to students on academic probation.

599 Independent Graduate Research (1-3)

Prerequisites: classified SBAE status, consent of instructor and approval by department chair. May be repeated for credit. Not open to students on academic probation.

573 Sentour in Taxation of Property Transactions (3)

Business Administration Degrees



INTRODUCTION

This major prepares students for entry level positions in business and administration in both the private and public sectors. Career opportunities range from accounting, cost analysis, marketing research and statistical forecasting to real estate, personnel, sales and information systems. This curriculum also provides a foundation for advanced study.

BACHELOR OF ARTS IN BUSINESS ADMINISTRATION

Admission to the Business Administration Major

Admission to the Business Administration major involves two steps. Students who apply to the major are initially classified as Pre-business. After completing the lower-division core requirements with grades of at least "C", students may apply to the Business Administration major. Pre-business students may take lower-division business courses, but most upper-division courses are not open to Pre-business students.

All of the following requirements must be met for the degree. Students must earn a grade of at least C in each course listed below. However, a C average will be acceptable in the required concentration courses. For assistance in interpreting these requirements contact the Business Advising Center.

Required Lower-Division Core Courses Economics 201 Principles of Microeconomics (3) Economics 202 Principles of Macroeconomics (3)

(Note: Economics 210, Principles of Economics (5), may be substituted for Economics 201 and Economics 202.)

Math 135 Business Calculus (3)

or Math 130 A Short Course in Calculus (4)

or Math 150A Analytic Geometry and Calculus (4)

Accounting 201A Financial Accounting (3)

Accounting 201B Managerial Accounting (3)

Management 246 Business Law (3) 300 3001205 beniupost

Manag Sci 265 Introduction to Information Systems and Computer Programming (3)

Note: Manag Sci 264, Computer Programming (2), and Manag Sci 263, Introduction to Information Systems and Micro-Computer Applications (2), may be substituted for Manag Sci 265.

Collateral Requirement

3-unit introductory social science course other than Economics, chosen from General Education section III.C.1.

English Proficiency Requirement

Cal State Fullerton Examination in Writing Proficiency (EWP)

Business Admin 301 Business Writing (3)
or Business Admin 301W Business Writing Workshop (3)

Note: Business Admin 301 Business Writing should be taken before registering for any 400-level SBAE courses.

Required Upper-Division Core Courses

Business administration majors shall not enroll in any required upper-division core course until they have completed all of the required lower-division core courses with a grade of at least C in each course. Students desiring to enroll in required upper-division core courses while concurrently completing the *last* of their required lower-division core courses may select only Business Administration 301, Business Writing, Economics 315, Intermediate Business Microeconomics (or Economics 310, Intermediate Microeconomics), and/or Management Science 361, Probability and Statistical Methods in Business and Economics.

The following are required:

Econ 315 Intermediate Business Microeconomics (3)
or Econ 310 Intermediate Microeconomic Analysis (3)
or Econ 320 Intermediate Macroeconomic
Analysis (3)

Note: Management concentration requires Econ 310 or 315.

Finance 320 Business Finance (3)

Management 339 Principals of Management & Operations (4)

Management 340 Organizational Behavior (3)

Marketing 351 Principles of Marketing (3)

Manag Sci 361 Probability and Statistical Methods in

Business and Economics (4)

Manag Sci 362 Management Science Methods in Business and Economics (3)

Required Concentration Courses

A minimum of 18 units of course work is required in one concentration. See listing of concentration requirements below.

Required Capstone Core Course

After completing all lower and upper-division core courses, take:

Note: Manag Sci 264, Computer Programming (2), and Manag

Management 449 Seminar in Business Policies (3)

Other Requirements, Grades and Residence

Global Awareness Requirement. Complete one course, of at least 3 units, in the area of Global Awareness. The course must be selected from the list of Approved Global Awareness Courses, which is available from the Business Advising Center.

Other subjects. Complete at least 50 percent of the coursework for the degree in subjects other than business administration or economics. Complete all university requirements for the bachelor's degree.

Grade-Point Average (GPA). Maintain at least a 2.0 GPA (C average) in all university courses and in the concentration courses. Earn at least a C grade in each course required for the major (other than concentration courses).

Grade option. Take all required core courses and all required concentration courses in the School of Business Administration and Economics for a letter grade (A,B,C,D,F). The Credit/No Credit grading option may not be used for these courses, and a grade of CR (credit) will not satisfy the requirements for the degree. Exception: Courses in calculus may be taken under the Credit/No Credit grading option, although courses taken to meet general education requirements must be taken for a letter grade.

Residence. At least nine units of courses in the area of concentration and at least 15 of the last 24 units of courses must be taken in residence at the School of Business Administration and Economics. Students also must fulfill university residence requirements.

Concentrations for the B.A. in Business Administration

Business administration majors must complete the requirements of one concentration in addition to the degree requirements shown above.

Accounting Concentration (21 units)

All students with an accounting concentration are required to take the courses shown below. Before taking these courses, students must first complete all of the required lower division core courses with a grade of at least C in each course and must receive a passing score on the Accounting Qualifying Exam. The examination must be passed during the two semesters prior to the semester of class enrollment. Exceptions to the requirement of completing lower division business core courses may be granted to students with non-business majors.

Accounting 301A,B Intermediate Accounting (3,3)

Accounting 302 Cost Accounting (3)

Accounting 308 Concepts of Federal Income Tax Accounting (3)

Accounting 402 Auditing (3)

Accounting 407 Accounting Info Systems (3)

and one of the following courses:

Accounting 401 Advanced Accounting (3)

Accounting 408 Problems in Taxation (3)

Accounting 470 Tax Research, Practice and Procedures (3)

Business Economics Concentration (18 units)

All students with an economics concentration are required to take Econ 310 Intermediate Microeconomic Analysis (3) or Econ 315 Intermediate Business Microeconomics (3) as part of

their business administration core requirements. In addition, the concentration requires Econ 320 Intermediate Macroeconomic Analysis (3) and Econ 410 Government and Business (3) and 12 units of upper-division economics electives, 3 units of which must be at the 400-level.

Students interested in economics also should consider the Bachelor of Arts in Economics.

Finance Concentration (18 units) 1928 of the standard IIA

All students with a finance concentration must choose one of the following emphases: Manage Sci 440 Deterministic Models in Management

Financial Institutions Emphasis (18 units)

Finance 331 Financial Management and Computer Applications (3)*

Finance 332 Theory of Corporate Finance (3)

Finance 340 Introduction to Investments (3)

Finance 425 Commercial Bank and Financial Institution Management (3)

Finance 440 Money and Capital Markets (3)

and 3 units of upper division finance electives (other than Fi-

Financial Management Emphasis (18 units)

Finance 331 Financial Management and Computer Applications (3)*

Finance 332 Theory of Corporate Finance (3)

Finance 340 Introduction to Investments (3)

and two of the following courses:

Finance 370 International Business Finance (3)

Finance 432 Financial Forecasting and Budgeting (3)

Finance 433 Problems in Business Finance (3)

and 3 units of upper division finance electives (other than Finance 310)

Investments and Financial Planning Emphasis (18 units)

Finance 331 Financial Management and Computer Applications (3)*

Finance 332 Theory of Corporate Finance (3)

Finance 340 Introduction to Investments (3)

and three of the following courses:

Finance 360 Principles of Insurance (3)

Finance 410 Theory and Practice of Personal Financial Planning (3)

Finance 442 Advanced Investment Analysis (3)

Finance 444 Options and Futures (3)

Finance 455 Real Estate Investment Analysis (3)

Note: To be eligible to sit for the Certified Financial Planner Examination, students must take all of the following: Finance 340, 360, 410, 411, 455, and Accounting 358.

Real Estate Emphasis (18 units)

Finance 331 Financial Management and Computer Applications (3)*

Theory of Corporate Finance (3) Finance 332

Real Estate and Urban Land Analysis (3) Finance 351

Finance 452 Real Estate Finance (3)
Finance 453 Real Estate Valuation (3)

and one of the following courses:

Finance 451 Real Estate/Land Use Law — Case Studies (3)

Finance 454 Real Estate and Urban Development (3)

Finance 455 Real Estate Investment Analysis (3)

Finance 456 Property Development and Real Estate Policy Analysis (3)

Management Concentration (18 units)

All students with a management concentration are required to take Econ 310 Intermediate Microeconomic Analysis (3) or Econ 315 Intermediate Business Microeconomics (3) as part of their business administration core requirements. In addition, students must choose one of the following emphases.

Contract Management Emphasis (18 units)

Management 343 Personnel Management (3)

Management 347 Business Law (3)

or Management 348 Business Law (3)

Management 436 Government Contracts (3)

Management 444 Project Management (3)

and 6 units of elective course work to be determined in consultation with a departmental adviser.

Entrepreneurial Management Emphasis (18 units)

Management 343 Personnel Management (3)
Management 345 Small Business Management (3)

or Management 448 Sem in Small Business Consulting (3)

Management 349 Law for the Small Business (3)

or Management 444 Project Management (3)

and 9 units of elective course work to be determined in consultation with a departmental adviser.

General Management Emphasis (18 units)

Management 343 Personnel Management (3)

Management 347 Business Law (3)

or Management 440 Emerging Issues in Management (3)

Management 444 Project Management (3)

Management 447 Management Decision Games (3)

and 6 units of elective course work to be determined in consultation with a departmental adviser.

^{*}Finance 331L Financial Management Lab (1) is optional and is highly recommended for students enrolled in Finance 331

Operations Management Emphasis (18 units)

Management 421 Operations Systems Design (3)

Management 422 Production and Inventory Control (3)

Management 445 Operations Policy and Strategy (3)

One course selected from the following:

Management 436 Government Contracts (3)

Management 441 Labor-Management Relations (3)

Management 444 Project Management (3)

Management 454 MIS Management and Design (3)

Manag Sci 467 Statistical Quality Control (3)

and two 3 unit electives chosen in consultation with a departmental adviser.

Human Resources Management Emphasis (18 units)

Management 343 Personnel Management (3)

Management 433 Advanced Topics in Human Resource

Management (3)

Management 441 Labor-Management Relations (3) and 9 units of elective course work from the following to be determined in consultation with a departmental adviser:

Management 431 Women in Management (3)

Management 439 Organizational Change & Development (3)

Management 440 Emerging Issues in Management (3)

Management 442 Grievance Handling and Arbitration (3)

Management 443 Group Dynamics (3)

Psychology 391 Industrial/Organizational Psychology (3)

Organizational Behavior Emphasis (18 units)

Management 343 Personnel Management (3)

Management 439 Organizational Change & Development (3)

Management 443 Group Dynamics (3)

and 9 units of elective course work from the following to be determined in consultation with a departmental adviser:

Management 431 Women in Management (3)

Management 433 Advanced Topics in Human Resource

Management (3)

Management 441 Labor-Management Relations (3)

Up to two upper-division social science courses

Management Information Systems Concentration

All students are required to take the Management Information Systems Qualifying Exam in addition to the following courses:

File Concepts and COBOL Programming (3) Manag Sci 270

Manag Sci 309 Elements of Information Systems Design (3)

Manag Sci 408 Database Management Systems (3)

Telecommunications and Business Manag Sci 409

Applications (3)

Manag Sci 365 Advanced BASIC Programming (3) OR

Manag Sci 370 Advanced COBOL Programming (3)

Intro to Management Information Management 344 Systems (3)

Management 454 Management Information Systems Analysis

and Design (3)

One course selected from the following:

Management 410 Information Resources Management (3)

Manag Sci 411 Advanced Microcomputer Concepts and Applications (3)

Manag Sci 415 Decision Support and Expert Systems (3)

Manag Sci 418 Privacy and Security (3)

Manag Sci 365 Advanced BASIC Programming (3) OR

Manag Sci 370 Avanced COBOL Programming (3)

Management Science Concentration (18 units)

All students with a management science concentration are required to take:

Manag Sci 440 Deterministic Models in Management

Science (4)

Manag Sci 441 Probabilistic Models in Management Science

Manag Sci 461 Statistical Theory for Management Science

and 6 units of upper-division management science electives chosen from the following:

Information Systems Courses

Manag Sci 309 Elements of Information System Design (3)

Manag Sci 370 Advanced COBOL Programming (3)

Manag Sci 408 Data Base Management Systems (3)

Manag Sci 409 Telecommunications and Business

Applications (3)

Manag Sci 411 Advanced Microcomputer Concepts and Applications (3)

Manag Sci 416 Computer Performance Evaluation (3)

Manag Sci 418 Privacy and Security (3)

Operations Research Course

Manag Sci 448 Computer Simulation in Business and Economics (3) sole someth notately reggy to stimu & bras

Statistics Courses

Manag Sci 420 Applied Statistical Forecasting (3)

Manag Sci 422 Surveys and Sampling Design and St. Someoff Applications (3)

Manag Sci 467 Statistical Quality Control (3)

Marketing Concentration (18 units)

Required Courses (9 units) a solution of both world 1014 something

Marketing 353 Marketing Analysis (3)

Marketing 370 Buyer Behavior (3)

Marketing Research (3) Marketing 379

Electives (6 units) 30 nave of the support of the s

Choose two from the following:

Professional Selling (3) Marketing 401

Marketing 405 Management Advertising (3) Marketing 415 Managing the Sales Force (3)

Marketing 425 Retail Marketing Strategy (3)

Marketing 435 Business Marketing Management (3)

Marketing 445 Multinational Marketing Strategy (3)

Marketing 465 Managing Services Marketing (3) Marketing 475 Export Marketing Strategies (3)

Capstone Course (3 units) | paintened table galaxag on male

Marketing 489 Developing Marketing Strategies (3)

MINOR IN BUSINESS ADMINISTRATION

The minor provides a basic understanding of the role of business in society and the methods used by business. This curriculum also provides a basis for advanced study. A working knowledge of algebra is necessary for several of the required courses.

Business administration minors shall not enroll in any required upper-division course (in the minor) until they have completed all of the required lower-division courses (in the minor) with a grade of at least C in each course. Students must earn a grade of at least C in each course listed below.

Required Lower-Division Courses

Economics 201 Principles of Microeconomics (3)

Economics 202 Principles of Macroeconomics (3)

or Economics 210 Principles of Economics (5) instead of Econ 201 and Econ 202

Accounting 201A.B Accounting (3,3)

Management 246 Business Law (3)

Management Science 265 Intro to Information Systems and Computer Programing (3) selected the results of selection to select

Required Upper-Division Courses

Special Notice: Enrollment in these courses requires the completion of all lower-division minor requirements with a grade of C or better in each course.

Management 339 Principles of Management & Operations (4) or Management 340 Organizational Behavior (3)

Finance 320 Business Finance (3)

Marketing 351 Principles of Marketing (3)

Economics Majors Minoring in Business Administration: Economics Majors can complete a minor in business administration by taking Accounting 201B, Management 246, Finance 320, Management 339 or 340 and Marketing 351. All other required courses for the minor are required for the major in Economics.

MASTER OF BUSINESS ADMINISTRATION DEGREE

The M.B.A. degree program is accredited by the American Assembly of Collegiate Schools of Business. This assures a rigorous, indepth program, covering the full spectrum of business administration. Accreditation also indicates a well-qualified faculty, high standards for students, and access to computing and an extensive library system. All many am at polygimist, mangong, A.S. Madator

Programs of Study The School of Business Administration and Economics offers two plans for the M.B.A. degree.

The M.B.A. Generalist Plan is designed for students with little or no course work in business administration. The curriculum surveys the entire field of business administration, preparing students for general management responsibilities. The plan is structured, keeping students together for most of their classes, and should be completed within three years. Courses may not be waived, although limited substitution of more advanced courses is allowed. This format requires a substantial and sustained commitment from students over the three-year period. Students who do not complete the curriculum within three years may change to the M.B.A. Specialist Plan.

The M.B.A. Specialist Plan is designed for students with recent course work (or an undergraduate degree) in business administration; for those who wish to include a specialized area of concentration in their curriculum; and/or for those unable to follow the structure of the M.B.A. Generalist Plan. Some courses may be waived on the basis of equivalent undergraduate course work. The program is not structured, and five years are allowed for completion. The areas of concentration are accounting, business economics, finance, international business, management, management science and marketing.

The M.B.A. program is scheduled especially for students who are employed full time. Courses are offered during the late afternoon and evening. Most students enroll on a part-time basis, taking two courses (6-7 units) per semester.

Most graduate courses in the School of Business Administration and Economics require "classified SBAE status" and are open only to students with classified standing in the M.B.A., M.S. in Accountancy, M.S. in Management Science, M.S. in Taxation or M.A. in Economics programs.

Admission

Students meeting the following requirements will be admitted to postbaccalaureate-unclassified standing:

- 1. Acceptable bachelor's degree from an appropriately accredited institution, or equivalent.
- 2. Grade-point average of at least 2.5 in the last 60 semester units attempted and in good standing at last college attended.

Note: Postbaccalaureate-unclassified students may enroll in undergraduate courses (100 thru 400 level) but are generally ineligible for graduate business courses (500 level). Such students may wish to take undergraduate courses which are necessary to meet the requirements for classified standing (see below). Upon completing the requirements, the student may file an "Application for Change of Academic Objective-Graduate" requesting admission to the M.B.A. program. Admission to the university as a postbaccalaureate-unclassified student does not constitute admission to the M.B.A. program, does not confer priority, nor does it guarantee future admission. Students planning to apply for admission to the M.B.A. program should confer with the graduate adviser in the School of Business Administration and Economics.

Students meeting the following additional requirements will be admitted to the M.B.A. program with conditionally classified standing:

- 3. Admission into the MBA program is based upon an analysis of the following quantitative and qualitative considerations:
 - A. A combination of GPA and Graduate Management Admission Test (GMAT) score, sufficient to yield a minimum score of 1000 according to one of the following formulas. Due to limited space, a higher minimum score is usually required of all applicants.
 - If overall undergraduate GPA is at least 2.5 and GMAT is at least 450, then score = (GPA x 200) + GMAT.
 - If overall undergraduate GPA is below 2.5 or GMAT is below 450, then score = (GPA x 200) + GMAT -50.
 - B. A score in the top three-fourth's of both the Verbal and Quantitative areas of the GMAT.
 - C. A minimum TOEFL score of 570 (international students only).
- D. Review by the MBA admissions committee of the following:
- 1. Academic preparation for graduate study
 - 2. Any prior work experience
 - 3. Two letters of reference
- A "Statement of Purpose" in pursuing the MBA, to be submitted by applicant

Note: Conditionally classified students may take a limited number of graduate courses (500 level), subject to the approval of the graduate adviser of the School of Business Administration and

Economics. Students are expected to advance promptly to classified standing. In particular, any deficiencies in calculus or computer programming must be removed during the first 12 months of study. Students who do not do so will not be allowed to continue in the program.

Students meeting the following additional requirements will be advanced to classified standing. Such students are eligible to take graduate courses for which they are qualified.

- 4. Proficiency in calculus and computer programming equivalent to passing Mathematics 135, Business Calculus (3 units), and Management Science 265, Introduction to Information Systems and Computer Programming (3 units), with grades of at least C. Students with work experience in these fields may demonstrate proficiency by passing a challenge examination and should consult the chair of the Management Science Department for details.
- 5. Approval of study plan.

Curriculum — M.B.A./Generalist Plan

The M.B.A./Generalist curriculum includes 17 courses (51 units).

Any deficiencies in calculus or computer programming must be removed within one year. No courses may be waived, although limited substitutions of more advanced courses in the same field will be allowed. Any study plan course in which a D grade is received should be repeated, and must receive at least a C grade, regardless of the overall GPA of the student.

If a foundation course is waived on the basis of an undergraduate course or courses, it must be replaced by an advanced course in the same discipline.

Foundation Courses Seems Seeds as seems and assemble and seems and assemble assemble and assemble assemble and assemble asse

Accounting 510	Financial Accounting (3)
Economics 515	The Price System and Resource
Allocation (3)	view and Sampling Design and
Finance 517	Managerial Finance (3)
Management 516 of Operations (3)	Organizational Theory and Management
Management 518	Legal Environment of Business (3)

Manag Sci 513 Statistical Analysis (3)
Manag Sci 515 Management of Information in the
Corporate Environment (3)

Marketing 519 Marketing Management (3)
Business Admin 590 Issues in Policy-ManagementEnvironment (3)

Advanced Courses (E) godeshow grintfill sendland. W102

Accounting 511 Seminar in Managerial Accounting (3) Economics 521 Macroeconomic Theory and Policy (3) Finance 523 Seminar in Corporate Financial Management

(3)

Management 524 Seminar in Organizational Behavior and Administration (3)

Manag Sci 514 Decision Models for Business and Economics (3)

Marketing 525 Seminar in Marketing Problems (3) 500-level elective chosen from any of the six SBAE departments

Terminal Evaluation

Business Admin 591 Strategy and Organization (3) Comprehensive Examination

Completion of the individual written project in Business Admin 591 with grade of "B" or better may serve as an option to the comprehensive examination.

Students who are unable to complete the M.B.A./Generalist Plan within three years may change to the M.B.A./ Specialist Plan. This change will result in adding an area of concentration.

Curriculum M.B.A./Specialist Plan

The M.B.A./Specialist curriculum includes a concentration in a specialized area and requires from 33 to 60 units of graduate course work. Students with a bachelor's degree in business administration may be able to complete the program with the minimum of 33 units, whereas those with little or no recent course work in business administration may require the full 60 units. Any deficiencies in calculus or computer programming must be removed within one year. Any study plan course in which a D grade is received must be repeated, and must receive at least a C grade, regardless of the overall GPA of the student.

Foundation Courses

Foundation courses may be waived on the basis of equivalent undergraduate course work, providing that the equivalent courses are no more than seven years old and have grades of at least C with a GPA of at least B. The show descent laubivibal mesh

Accounting 510 Financial Accounting (3)

Economics 515 Price System & Resource Allocation (3)

Finance 517 Managerial Finance (3)

Management 516 Organizational Theory and Management of Operations (3)

Management 518 Legal Environment of Business (3)

Manag Sci 513 Statistical Analysis (3)

Manag Sci 515 Management of Information in the Corporate Environment (3)

Marketing 519 Marketing Management (3)

Business Admin 590 Issues in Policy-Management-

Environment (3)

A list of equivalent undergraduate courses is available from the graduate adviser. In many cases, students with a recent bachelor's degree in business administration from an accredited university will be able to waive all foundation courses.

Advanced Courses

All seminars in this group must be taken at the graduate level. Students with a concentration in international business are required to take only five of the following courses:

Accounting 511 Sem in Managerial Accounting (3) Note: Students who have satisfactorily completed a course in cost accounting must substitute Accounting 521 Sem in Administrative Accounting (3).

Econ 521 Macroeconomic Theory and Policy (3)

Note: Economics 521 is not open to students with credit in intermediate macroeconomics.

Finance 523 Seminar in Corporate Financial Mgmt (3) Management 524 Seminar in Organizational Behavior and Administration (3)

Marketing 525 Seminar in Marketing Problems (3) Manag Sci 514 Decision Models for Business and

Economics (3)

or Manag Sci 526 Forecasting, Decision Analysis, and Experimental Design (3)

or Manag Sci 550 Special Topics on Information Systems Design and Data Communication (3)

Concentration Courses (except international business)

12 units in one area of concentration:

Accounting Management Management Business Economics Management Science Finance Marketing

At least 6 units of the concentration courses must be taken at the 500-level. Concentration courses are to be approved by the department chair concerned, or designee within the department, and the Associate Dean, Graduate Programs, School of Business Administration and Economics.

Note: Students choosing the accounting concentration may have to take Accounting 301A, B, Intermediate Accounting, and/or Accounting 308, Concepts of Federal Income Tax Accounting, as prerequisites to their concentration courses.

Concentration Courses International Business

Five of the following courses (15 units) are required, including at least 9 units at the graduate (500) level. (Note that students with an international business concentration take only five of the courses listed above under Advanced Courses.)

Accounting 518 Seminar in International Accounting (3)

Economics 411 International Trade (3)

Finance 570 Seminar in International Financial Mgmt (3)

Management 547 Comparative Management (3)

Marketing 445 Multinational Marketing Strategies (3)

Elective (3 units) to be approved by the international business advisor. Recommended electives include selected courses in History, Political Science, Communications, Geography and Chicano Studies.

Terminal Requirements

Business Admin 591 Strategy and Organization (3)
Comprehensive Examination

Completion of the individual project in Business Admin 591 with a grade of "B" or better may serve as an option to the comprehensive exam.

In exceptional cases, a thesis (Business Administration 598, Thesis) may also serve as an option for the comprehensive examination. See the graduate adviser for details.

Business Administration Courses

For information about Business Administration 301, consult the Coordinator, Business Writing Program, in the Business Writing Office, Modular Unit 209 or Mobil Unit 302. For information about Business Administration 590 and 591, consult the graduate adviser in the Business Advising Center, LH-700.

301 Business Writing (3)

Prerequisite: English 101 or equivalent (with a grade of C or better). Principles of effective writing in business. Extensive practices in various forms of business writing. Case studies. Instructional fee required. Satisfies the classroom portion of the upper-division writing requirement for business and economics majors. Students may not receive credit for both Bus Ad 301 and Bus Ad 301W.

to take Accounting 301A, B. Intermediate Accounting, and/or Accounting 308, Concepts of Federal Income Tax, Accounting, as prerequisites to their concentration courses.

If the AdM act galusted to second 10 tremested A. A. Concentration Courses International Business bassurdue

Five of the following courses (15 units) are required, including at

301W Business Writing Workshop (3)

Prerequisite: English 101 or equivalent (with a grade of C or better). Principles of effective writing in business. Extensive practice in various forms of business writing. Case studies. Uses word processing facilities in computer lab. Satisfies the classroom portion of the upper-division writing requirement for business and economic majors. (2 hours lecture: 2 hours activity.) Students may not receive credit for both Bus Ad 301 and Bus Ad 301W.

499 Independent Study

Prerequisite: consent of instructor. Open to qualified students desiring to pursue directed independent inquiry. May be repeated for credit. Not open to students on academic probation.

Marketing 525 Seminar in Marketing Problems (3)

590 Issues in Policy-Management-Environment (3)

Focuses on importance of monitoring changes in environment(s) facing business and incorporating social, economic, and technological change into corporate decision-making process. Emphasizes use of analysis tools from other MBA classes with focus on data sources and methods for effective environmental scanning and emphasis on business ethics and social responsibility, international competitiveness, and changes in legal environment.

591 Strategy and Organization (3) support both series besilescope

Studies complex business problems and solutions. Builds skills in integrating knowledge from functional areas and applying them in an original and organized form to a range of business problems arising from changing technology, competitive market conditions, social changes, government actions. Includes article analysis, case analysis, a research project, individual and group reports and oral and written presentations. The individual project or an optional comprehensive exam will fulfill the terminal degree requirement.

undergraduate course work, providing that the e (3) sies Thesis (3)

Prerequisites: classified SBAE status and consent of associate dean. Individual research under supervision. *See* "Theses and Projects" in this catalog for university requirements.

Operations (3) a Commence of Business (3)
Management 518 Legal Environment of Business (3)
Manag Sci 513 Statistical Analysis (3)

Business Admin 390° Issues in Policy Management



(5) Salman coopyral to salaring 102 Salmonood Bus Administration 301 Business Writing (3) 202 Salmonood or Dus Administration 301W Business Writing Workshop (3)

Required Upper-Division Courses Courses

Economics 310 Intermed Aucroeconomic Analysis (3) 3 to Economic 320 Intermed Macroeconomic Analysis (3) 4 to Manna Sci 301 Profability and Statistical Methods in Pusiness and Economics (4)

which must be 400 level. No more than 3 units of independent study may be used to meet the 400 level electives requirement.

registering for any 400-level SBAE courses

Department of Economics

Department Chair: Anil Puri Director, Center for Economic Education: John Lafky a part and processing the company of the control of the Department Office: Langsdorf Hall 702 Center for Economic Education: Langsdorf Hall 530

Programs Offered alminosib sombo vineyog as doue anolding

Bachelor of Arts in Business Administration Concentration in Business Economics

Bachelor of Arts in Economics

Minor in Economics

Master of Business Administration Concentration in Business Economics

Master of Arts in Economics

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Robert Avanian, Victor Brajer, Kwang-wen Chu, James Dietz, Vincent Dropsy, Peter Formuzis, Andrew Gill, Jane Hall, Walter Hettich, Sidney Klein, John Lafky, Stewart Long, Robert Michaels, Radha Murthy, Howard Naish, Gary Pickersgill, Joyce Pickersgill, Anil Puri, Dipankar Purkayastha, Morteza Rahmatian, Guy Schick, Eric Solberg, Murray tion in business economics. Wolfson, David Wong

Advisers

The Business Advising Center, Langsdorf Hall 700, provides information on admission, curriculum and graduation requirements; registration and grading procedures; residence and similar academic matters. In addition, all economics majors should see a faculty adviser in the Department of Economics for information on career opportunities and advanced study. Undergraduates should consult the department office for the name of their faculty adviser. Graduate students should consult the graduate coordinator, Walter Hettich.

INTRODUCTION 1 bas appealed 1 seconds 6 her standards

As a scholarly discipline, economics is over two centuries old, dating back to the French physiocrats and Adam Smith in the 18th century. The nature of economic analysis has been described by John Maynard Keynes as ". . . a method rather than a doctrine, an apparatus of the mind, a technique of thinking which helps its possessors to draw correct conclusions." Economic methods are used to study a basic question which faces all societies: how should limited resources be used to produce goods and how should that production be distributed? Not all wants can be satisfied because resources and knowledge are limited. Therefore, societies are faced with choices. These choices are made in different ways: by custom; by command and centralized control; or by a system of markets and prices as in our mixed economy. Economists examine alternative solutions to the basic economic problem by analyzing costs and benefits of changing existing patterns of resource use.

Economists work in many specialties including money and banking, international trade and finance, labor, public finance, industrial policy, business cycles and forecasting. Social issues and problems such as poverty, crime, discrimination, immigration, aging, energy, pollution and education are typical subjects of faculty research.

The faculty of the Economics Department participates in programs leading to both undergraduate and graduate degrees. One undergraduate program leads to a bachelor of arts degree with a major in economics, which focuses on economics as a social science. Another undergraduate program leads to a bachelor of arts degree with a major in business administration and a concentration in business economics and requires a larger number of business courses. Both programs prepare the student for a variety of career opportunities in business and government as well as advanced studies in economics, business, public administration and law. Graduate study is offered in economics, leading to a master of arts degree. Alternatively, students may follow the Master of Business Administration curriculum, with a concentration in business economics.

Credential Information

For students interested in a teaching credential, the Department of Economics offers courses which may be included in the Multiple Subjects Waiver Program; the Single Subject Waiver Program in Business; and in the Supplementary Authorization Programs in Economics and in Economics and Consumer Education.

Further information on the requirements for teaching credentials is found in the Teaching Credential Programs section of this catalog and also is available from the Department Office for Elementary and Bilingual Education and for Secondary Education. Students interested in exploring careers in teaching at the elementary or secondary school levels should contact the Office of Admission to Teacher Education, Education Classroom 207.

Prizes in Economics

The Norman Townshend–Zellner Award
Wall Street Journal Student Achievement Award
Outstanding Senior in Economics
Outstanding Graduate Student in Economics

BACHELOR OF ARTS IN ECONOMICS

Admission to the Economics major involves two steps. Students who apply to the major are initially classified as Pre-economics. After completing the lower-division core requirements with grades of at least "C", students may apply to the *Economics major*. Pre-economics students may take lower-division business and economics courses, but most upper-division courses are not open to Pre-economics students.

All of the following requirements must be met for the degree. Students must earn a grade of at least C in each course listed below. However, a C average will be acceptable in the upper division economics electives. For assistance in interpreting these requirements contact the Business Advising Center, Langsdorf Hall 700. Students should also contact their faculty adviser in the Economics Department prior to or during their first semester.

Required Lower-Division Courses

Economics 201 Principles of Microeconomics (3) Economics 202 Principles of Macroeconomics (3)

Note: Economics 210, Principles of Economics (5), may be substituted for Economics 201 and 202.

Accounting 201A Financial Accounting (3)

Math 135 Business Calculus (3)

or Math 130 A Short Course in Calculus (4)

or Math 150A Analytic Geometry and Calculus (4)

Economics 440 Introduction to Econometrics (3)

or Math 150B Analytic Geometry and Calculus (4)

or Accounting 201B Managerial Accounting (3)

Manag Sci 265 Introduction to Information Systems and Computer Programming (3)

Note: Management Science 264, Computer Programming (2), and Management Science 263, Introduction to Information Systems and Micro-Computer Applications (2), may be substituted for Management Science 265.

English Proficiency Requirement

Cal State Fullerton Examination in Writing Proficiency (EWP).

Bus Administration 301 Business Writing (3)
or Bus Administration 301W Business Writing Workshop (3)

Note: Bus Admin 301, Business Writing, should be taken before registering for any 400-level SBAE courses.

Required Upper-Division Courses

Economics 310 Intermed Microeconomic Analysis (3)

Economics 320 Intermed Macroeconomic Analysis (3)

Manag Sci 361 Probability and Statistical Methods in

Business and Economics (4)

and 18 units of upper-division economics electives, 6 units of which must be 400 level. No more than 3 units of independent study may be used to meet the 400 level electives requirement.

Other Requirements, Grades and Residence

Other Subjects. Complete at least 50 percent of the coursework for the degree outside the School of Business Administration and Economics. The department recommends that these courses be from the social sciences and mathematics. Students planning to do graduate work in economics are advised to take Math 150A, B; Economics 440 and Economics 441. Complete all university requirements for the bachelor's degree.

Grade-Point Average (GPA). Attain at least a 2.0 GPA (C average) in all university courses and in the upper division economics electives. Earn at least a C grade in each course required for the major (other than the upper division economics electives).

Grade Option. Take all required courses in economics, accounting and management science for a letter grade (A,B,C,D,F). The credit/no credit grading option may not be used for these courses, and a grade of CR (credit) will not satisfy the requirements for the degree. Exception: courses in calculus may be taken under the credit/no credit grading option, although courses taken to meet general education requirements must be taken for a letter grade.

Residence. At least 15 units of courses must be taken in residence at the School of Business Administration and Economics at Cal State Fullerton. Also fulfill university residence requirements.

BACHELOR OF ARTS IN BUSINESS **ADMINISTRATION**

See "Business Administration, Business Economics Concentration."

MINOR IN ECONOMICS

The economics minor covers the basics in the discipline of economics and gives students the opportunity to explore personal interests through electives. Note that a course in calculus (Math 135 or equivalent) is prerequisite to Economics 310 and 320. Students must earn a grade of at least C in each course listed

Required Lower-Division Courses

Economics 201 Principles of Microeconomics (3) Economics 202 Principles of Macroeconomics (3)

Note: Economics 210, Principles of Economics (5), may be substituted for Economics 201 and Economics 202.

Required Upper-Division Courses

Economics 315 Intermediate Business Microeconomics (3) or Economics 310 Inter Microeconomics Analysis (3) Economics 320 Intermediate Macroeconomics Analysis (3) and 9 units of upper division economics electives

Note: Students with a major in business administration and a concentration other than economics, who wish to minor in economics, must take Economics 201 and 202 (or 210) and 310 as part of their major. For such students, these requirements in the minor will be waived and the minor will consist of Economics 320 and nine units of upper-division economics electives. Students with a major in business administration and a concentration in business economics may not also minor in economics.

MASTER OF BUSINESS ADMINISTRATION

See "Business Administration, Business Economics Concentration."

MASTER OF ARTS IN ECONOMICS

This program provides preparation for professional careers in private industry and government and provides a foundation for further graduate work at the doctoral level. Full-time and parttime students can be accommodated. Most of the courses are scheduled in the evening.

The curriculum is designed for students with an undergraduate degree in business administration or economics, and consists of 10 courses (30 units). Provided that all prerequisites have been satisfied, the program may be completed in one year (full time) or 2½ years (part time).

The required courses progress from economic theory through economic model building and forecasting to the seminar in which the student prepares a thesis applying economic theory and econometric methods to a specific area of investigation. The curriculum also includes five courses (15 units) of electives.

Most graduate courses in the School of Business Administration and Economics require classified "SBAE status" and are open only to students with classified standing in the M.A. in Economics, M.B.A., M.S. in Management Science, or M.S. in Taxation programs.

Admission

Students meeting the following requirements will be admitted to postbaccalaureate-unclassified standing:

- 1. Acceptable bachelor's degree from appropriately accredited institution, or equivalent.
- 2. Grade-point average of at least 2.5 in the last 60 semester units attempted, and in good standing at last college attended.

Postbaccalaureate-unclassified students may enroll in undergraduate courses (100 thru 400 level) but are generally ineligible for graduate economics courses (500 level). Such students may wish to take undergraduate courses which are necessary to meet the requirements for classified standing (see below). Upon completing the requirements, the student may file an Application for Change of Academic Objective — Graduate requesting admission to the M.A. in Economics program. Admission to the university as a postbaccalaureate - unclassified student does not constitute admission to the program, does not confer priority, nor does it guarantee future admission. Students planning to apply for admission to the program should confer with the graduate adviser in the Department of Economics.

Students meeting the following additional requirements will be admitted with conditionally classified standing:

- 3. Overall undergraduate GPA of at least 2.5.
- 4. An average score of 500 on the Graduate Record Examination (G.R.E.): OFFER TRIMINGS ASSISTED TO STREAM

Conditionally classified students may take a limited number of courses at the graduate level, subject to the approval of the graduate adviser of the Department of Economics. Students are expected to advance promptly to classified standing.

Students meeting the following additional requirements will be advanced to classified standing. Such students are eligible to take graduate courses for which they are qualified.

5. Completion of the following courses at Cal State Fullerton (or equivalent courses at other institutions) with a grade-point average of at least 3.0 (B average). The course in calculus must have a grade of at least C.

Economics 201 Principles of Microeconomics (3)

Economics 202 Principles of Macroeconomics (3)

Economics 310 Intermediate Microeconomic

Analysis (3) Analysis (3)

Economics 320 Intermediate Macroeconomic

Analysis (3)

Economics 420 Money and Banking (3) or three units of upper-division electives

Manag Sci 361 Probability and Statistical Methods in

Business and Economics (4)

Mathematics 135 Business Calculus (3)

6. Approval of study plan. Students meeting the following requirements will be admitted to good-ecalance for taselfied stiffding.

Students are urged to meet as soon as possible with the graduate adviser in the Department of Economics to file a study plan and advance to classified standing.

Any study plan course in which a D grade is received must be repeated, and must receive at least a C grade, regardless of the overall grade-point average of the student. arte courses (100 days 400 level) har his generally incligible for

Required Core Courses (12 units)

Introduction to Econometrics (3) Economics 440

Introduction to Mathematical Economics (3) Economics 441

Economics 502 Adv Microeconomic Analysis (3)

Adv Macroeconomic Analysis (3) Economics 503

Area & Elective Courses (15 units)

Area courses require nine units chosen from the student's field of interest. Coursework may focus on the following areas: (1) environmental and natural resource economics (Economics 416, 462,

590), (2) international economics and finance (Economics 411, 590), and (3) applied economic analysis involving course work related to industrial organization and labor (Economics 505, 410, 412, 413, 446) or the public sector (Economics 505, 416, 417, 420, 421).

Among field and elective courses, six units must be taken at the 500 level and at least six units must be in economics. The remaining units in the student's program can be chosen from course offerings in Economics or related areas of study.

Terminal Evaluation (3 units)

Economics 598 Thesis Research (3)

Economics Courses

100 The Economic Environment (3)

The application of economics to the problems of unemployment and inflation, the distribution of income, competition and monopoly, the role of government in the economy, and other policy issues. Not open to prebusiness, business administration majors or minors, economics majors or minors, or international business

201 Principles of Microeconomics (3)

Principles of individual consumer and producer decision-making in various market structures; the price system; market performance and government policy. (CAN ECON 4) monos and I

202 Principles of Macroeconomics (3)

Prerequisite: Economics 201. Principles of macroeconomic analysis and policy; unemployment and inflation; financial institutions; international trade; economic growth; comparative systems. (CAN ECON 2)

Economics 201 Principles of Microeconomics (3)

210 Principles of Economics (5)

Prerequisite: Open only to junior transfers. (Duplicates 201 and 202.) Economic analysis and policy. The central problem of scarcity, economic institutions of the United States, resource allocation and income distribution, economic stability and growth, the role of public policy, and international applications.

310 Intermediate Microeconomic Analysis (3)

Prerequisites: Economics 202 or 210 and Mathematics 135; corequisite Management Science 361. Rational decision-making behavior of consumers and firms and price and output determination in markets. Primarily for Economics majors, but open to all students who qualify.

315 Intermediate Business Microeconomics (3)

Prerequisites: Economics 202 or Economics 210 and Mathematics 135. Corequisite: Management Science 361. Analysis of business decisions in alternative market structures with special emphasis on problem solving in a business context using economic concepts and methods. Not open to Economics majors. Students may not receive credit for both Economics 310 and 315.

320 Intermediate Macroeconomic Analysis (3)

Prerequisite: Economics 202 or 210 and Math 135; Corequisite: Management Science 361. The determinants of the level of national income, employment and prices, and monetary and fiscal policies. (4) someonod conuces a general to a constant of the constant of the control of the con

330 Comparative Economic Systems (3)

Prerequisite: Economics 100 or 201 or 210. Alternative economic systems; their theoretical foundations, actual economic institutions, and achievements and failures. Contrast between socialist and capitalist systems.

331 The Soviet Economy (3)

Prerequisite: Economics 100 or 201 or 210. The structure and performance of the Soviet economy; the problems of allocating scarce resources and sustaining economic growth in a planned economy, and consent of the department internship, and consent internship, 2.5 cDA and one semester in residence

332 Economic Problems of Asia (3)

Prerequisite: Economics 100 or 201 or 210. The natural resources, population, agricultural, industrial, transportation, communications, monetary, banking, etc. problems of Asia, (i.e., China, Japan, and the Asian subcontinent). The relation of non-economic problems to the economy.

333 Economic Development: Analysis and Case Studies (3)

Prerequisite: Economics 100 or 201 or 210. The processes of economic growth with references to developing areas. Capital formation, resource allocation, relation to the world economy, economic planning and institutional factors, with case studies.

334 Economics of Latin America and the Caribbean (3)

Prerequisite: Economics 100 or 201 or 210. Examines regional economic problems within an international context: dependence, industrialization and the international corporation; agriculture; regional cooperation; inflation; trade and debt problems. Major economic thinkers will be discussed.

335 The International Economy (3)

Prerequisite: Economics 100 or 201 or 210. The theory, practice and institutions of the international economy. International trade and investment; European economic community; balance of payments; foreign exchange rates; multinational enterprise; trade with developing countries; East-West trade; international economic policy.

340 The Economics of Regulation (3) would bus well the

Prerequisite: Economics 100 or 201 or 210. The laws pertaining to regulation and the implications for each regulated industry. Industry studies; the effects of regulation on price, output, innovations, etc.

350 American Economic History (3)

Prerequisite: Economics 100 or 201 or 210. The development of American economic institutions; economic problems, economic growth and economic welfare.

351 European Economic History (3)

Prerequisite: Economics 100 or 201 or 210. The evolution of European economic institutions and their relation to the development of industry, commerce, transportation and finance in the principal European countries.

361 Urban Economics (3)

Prerequisite: Economics 100 or 201 or 210. Theory and analysis of the urban economy, urban economic problems and policy.

362 Environmental Economics (3)

Prerequisite: Economics 100 or 201 or 210, or consent of instructor. Economic analysis of environmental problems and related issues: externalities, property rights, social costs and benefits, user cost, rent and decisionmaking under uncertainty.

363 The Economics of Energy (3) Prerequisite: Economics 100 or 201 or 210. Economic theory applied to energy problems, the impact of energy development on economic structure, and the role of government in allocating energy resources and influencing their use.

410 Government and Business (3)

Prerequisite: Economics 310 and Business Administration 301 or the equivalents. Business organization, conduct and performance; the rationale and impact of public policy on business and business activities, including the regulated industries, sick industries and antitrust policy. The season of the shortest land

411 International Trade (3)

Prerequisite: Economics 310 or 315 and Business Administration 301 or the equivalents. The theory of international gains from free trade, effects of tariff and non-tariff barriers, and conduct of commercial policy. The balance of payments, the theories of exchange rate determination, and other international economic issues.

412 Labor Economics (3) bons (18 southonood assulatopoise)

Prerequisite: Economics 310 and Business Administration 301 or the equivalents. Labor supply and demand, labor force participation, employment, unemployment, human capital, wage differentials, disadvantaged labor market groups, discrimination and wage-related income transfers.

413 Law and Economics (3)

Prerequisites: Economics 310 or 315. An economic analysis of the common law - property, contract, and tort - focusing on the use of microeconomic theory to study the economic efficiency characteristics and effects of these laws. An emphasis will be placed on the analysis of specific legal cases.

416 Benefit Cost and Microeconomic Policy Analysis (3)

Prerequisites: Economics 310 or consent of instructor; Business Administration 301; or the equivalent. Application of microeconomic models and welfare economics to public policy. Concepts of economic efficiency, economic surplus and equity. Measurement of policy effects, including benefit-cost analysis, with applications to selected policy areas such as education and environmental programs.

417 Public Finance (3)

Prerequisite: Economics 310 or consent of the instructor, Business Administration 301 or the equivalent. Government finance at the federal, state and local levels; the impact of taxation and spending on resource allocation, income distribution, stabilization and growth. (E) as been done as resonance will See

420 Money and Banking (3)

Prerequisite: Economics 320 and Business Administration 301 or the equivalents. The money supply process and the impact of monetary policy on economic activity.

421 Monetary and Fiscal Policy (3)

Prerequisite: Economics 320 and Business Administration 301 or the equivalents. The techniques of monetary and fiscal policy; of their relative roles in promoting economic stability and growth.

410 Government and Business (31

440 Introduction to Econometrics (3)

Prerequisites: Economics 202 (or 210), Manag Sci 361 and Business Administration 301 or the equivalents. Economic measurement: specification and estimation of econometric models; statistical methods in economic research. Tolog sentions bus soin

441 Introduction to Mathematical Economics (3)

Prerequisites: Economics 202 (or 210) and Math 135 or equivalent. Economic theory, from microeconomics and macroeconomics. Content varies; constrained optimization problems and rational decision-making.

442 Economics of Conflict and Defense (3)

Prerequisites: Economics 310 and 320, or consent of instructor, and Business Administration 301 or equivalent. The economic approach to public goods, arms race and other models of arms competition, game theory, nuclear deterrence and arms control, and the effects of U.S. defense spending on the U.S. and international economy. Applications to U.S.-Soviet Relations.

446 Managerial Economics (3)

Prerequisites: Economics 310 or 315, and Management Science 361. An application of microeconomic analysis and economic measurement to decision making at the individual firm level. The influence of the macroeconomic environment and market structure on the decisions of the firm. Applications and case studies.

450 History of Economic Thought (3)

Prerequisites: Economics 310 or 320 and Business Administration 301. Major schools of thought and of leading individual economists as they influenced economic thought and policy.

462 Natural Resource Economics (3)

Prerequisites: Economics 310 or 315 and Business Administration 301, or the equivalents. Concepts and principles in the application of economics to issues in natural resource economics. Issues will include uncertainty and risk in investment, depletion over time, cartelization, the role of technological innovation and government intervention related to fuels, water, land, etc.

495 Internship (1-3)

Prerequisites: economics major with Business Administration 301, Manag Sci 361, Economics 310 (or 320) (or the equivalents) or international business major with Business Administration 301, Economics 202 and 335, Manag Sci 361 (or the equivalents); and consent of the department internship adviser, at least junior standing, 2.5 GPA and one semester in residence at the university. Planned and supervised work experience. May be repeated to a total of six units credit. Credit/No Credit grading only.

496 Student-to-Student Tutorial (1-3)

Prerequisites: economics major or concentration, Economics 310 and 320, Business Administration 301, senior standing, 3.0 GPA and consent of department chair. Student learns through teaching (tutoring) other students enrolled in principles and intermediate economics courses. Consult "Student-to-Student Tutorials" in this catalog for more information. May not be used to satisfy the elective requirements for the major or concentration in economics. Credit/No Credit grading only.

499 Independent Study (1-3)

Prerequisites: economics major or concentration, Economics 310 and 320, Business Administration 301 (or the equivalents), senior or graduate standing, and consent of instructor and department chair. Directed independent inquiry. May be repeated for credit. Not open to students on academic probation.

502 Advanced Microeconomic Analysis (3)

Prerequisites: Economics 310 and classified SBAE status or consent of instructor. An advanced treatment of rational decision-making behavior of consumers and firms, the price system, and resource allocation in partial and general equilibrium settings. Topics include preference theory, welfare economics, gains from trade, monopoly power, external costs and benefits, public goods, factor markets, intertemporal decisions, risk and uncertainty.

503 Advanced Macroeconomic Analysis (3)

Prerequisites: Economics 320 and classified SBAE status or consent of instructor. The determination of employment, fluctuations o

503 Advanced Macroeconomic Analysis (3)

Prerequisites: Economics 320 and classified SBAE status or consent of instructor. The determination of employment, fluctuations of real and money income, and the forces underlying economic growth.

505 Economic Models and Forecasting (3)

Prerequisites: Economics 440 and classified SBAE status or consent of the instructor. Statistical methods of econometric estimation and forecasting. Practical solutions to problems in model specification, estimation by regression, time series analysis and forecasting.

515 The Price System and Resource Allocation (3)

Prerequisites: classified SBAE status and Math 135 or the equivalent. Microeconomic analysis and policy under mixed capitalism. The economic environment and institutions, markets, consumer choice, production and resource allocation. Monopoly power and government intervention. (Not open to M.A. Economic candidates.)

516 Economics and Benefit-Cost Analysis (3)

Prerequisites: Economics 201 (or 210) and classified graduate status in environmental studies or public administration. Economics and benefit-cost analysis of public projects. Consumer demand and the estimation of benefits; the nature of cost in a market economy; price controls, unemployment and inflation; and criteria for choice, for multi-year projects. For elective credit in the M.S. Environmental Studies or M.P.A.

517 Economics of Public Finance (3)

Prerequisite: Economics 515 (or 516) and classified graduate status in environmental studies, public administration, business administration, or taxation. Economics of federal, state and local governmental spending, taxation and borrowing. Major taxes, their effects on market prices, income distribution, employment and inflation, and evaluation of reform proposals. (For elective credit in the M.S. Environmental Studies, M.P.A., M.B.A., or M.S. Taxation.)

521 Macroeconomic Theory and Policy (3)

Prerequisites: Economics 310 or 515 and classified SBAE status. National income determination and macroeconomic models. Inflation and unemployment. Monetary and fiscal policies. International trade and foreign exchange (Not open to M.A. Economics candidates or students with credit for Economics 320.)

522 Comparative Economics Seminar (3)

Prerequisites: Economics 515 or 310 and classified SBAE status. Analytical and prescriptive approaches to economic problems of scarcity, development, fiscal and monetary policy, planning and poverty. (Not open to M.A. Economics candidates.)

590 Topics in Economic Analysis and Policy (3)

Prerequisites: Economics 310 and 320; classified SBAE status or consent of instructor. Contemporary research in areas such as: resource economics; history of economic thought; international monetary systems; forecasting; economics of planning; human resource economics. May be repeated for credit.

595 Current Research in Economics (3)

Prerequisite: classified graduate status in Economics or Economics 440, a 3.25 or better grade-point average and permission of the instructor. Students attend the departmental research seminar where faculty and outside speakers present papers dealing with recent and ongoing research. Students read material relevant to presentations and write analytical reports covering five seminar meetings.

597 Project (3) The same amount I language legiones

Open to qualified graduate students. Directed independent inquiry. Not open to students on academic probation.

598 Thesis Research (3)

Prerequisites: Economics 502, 503 and classified SBAE status. Corequisite: Economics 505. Selection and approval of topic; outline; methodology; literature survey; data collection and analysis; presentation of results. Award of the grade is contingent upon the completion and acceptance of the thesis.

599 Independent Graduate Research (1-3)

Prerequisites: Economics 440, 502 and 503; classified graduate status; and consent of instructor and department chair (or designee). Directed advanced independent inquiry. May be repeated for credit. Not open to students on academic probation.

Subject Waiver Program in Business and in the Samulamentalis

Department of Finance

Department Chair: John Emery

Department Office: Langsdorf Hall 556

522 Comparative Economics Seminar (abrarling Comparative Economics Seminar (ab

Bachelor of Arts in Business Administration

Concentration in Finance Concentration in Finance

Master of Business Administration

Concentration in Finance

Faculty Ass believely of this of common a satisfactory?

Albert Bueso, Su Chan, Caroline Chang, Donald Crane, John Erickson, Albert I. Fredman, Daniel Lee, Peter Mlynaryk, Dennis O'Connor, P. James Stickels, Richard Stolz, Marco Tonietti, Blaine Walgreen, Ko Wang

590 Topics in Economic Analysis and Policy (3)

595 Current Research in Economics (3)

The Business Advising Center, Langsdorf Hall 700, provides information on admissions, curriculum and graduation requirements, registration and grading procedures, residence and similar academic matters. In addition, advising on curriculum content and career opportunities may be obtained from the chair of the Finance Department or from:

Financial Management Personal Financial Planning

Securities and Investments Albert Fredman

Marco Tonietti Donald Crane Real Estate Real Estate Peter Mlynaryk

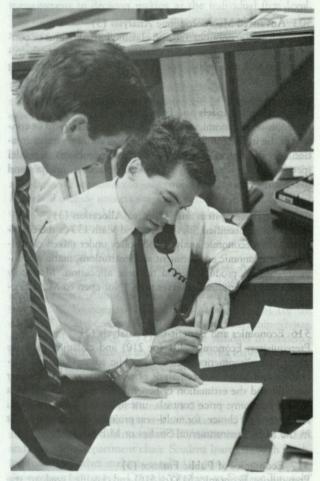
INTRODUCTION

Finance is the study of the methods by which a firm provides itself with cash to run its daily operations and its long-range expanoutline, methodology, liventum survey, data collection and .nois

In choosing their course work students may elect one of four areas of emphasis within the finance concentration of the major in business administration: financial management; financial institutions; investments and financial planning; and real estate. A financial management emphasis may lead to employment in a bank or savings and loan association. An investment and financial planning emphasis may lead to employment in a brokerage firm or a financial planning firm. A real estate emphasis may lead to employment in the real estate industry.

Credential Information

For students interested in a teaching credential, the Department of Finance offers courses which may be included in the Single Subject Waiver Program in Business and in the Supplementary Authorization Program in Economics and Consumer Education.



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Further information on the requirements for teaching credentials is found in the Teaching Credential Programs section of this catalog and is also available from the Department Office for Secondary Education. Students interested in exploring careers in teaching at the elementary or secondary school levels should contact the Office of Admission to Teacher Education.

Prizes in Finance Analysis A Real Estate Anti-

The Wall Street Journal Award
Edward D'Cunha Finance Award
Financial Management Association Award
Investment Trust Award
Jack Nichols Scholarship Award
Outstanding Finance Student Award
Outstanding Service Award

BACHELOR OF ARTS IN BUSINESS ADMINISTRATION

See "Business Administration, Finance Concentration."

MASTER OF BUSINESS ADMINISTRATION

See "Business Administration, Finance Concentration."

Finance Courses

310 Personal Financial Management (3) 10 11b910 oktober

Financial problems of the household in allocating resources and planning expenditures. Housing, insurance, installment buying, medical care, savings and investments. (May not be used to fulfill the concentration requirement in finance.)

320 Business Finance (3) anotherlong simebase no atrial

Prerequisite: Accounting 201B; corequisite: Management Science 361. Financing business enterprises; financial planning and control; analysis of alternative sources and uses of combinations of short-, intermediate-and long-term debt and equity. Cost of capital. Study of capital investment decisions; capital budget analysis and valuation; working capital and capital structure management; relative impact on the international environment of financial decisions.

331 Financial Management and Computer Applications (3) Prerequisite: Finance 320. Analysis of working capital management and policy. Use of available software programs and financial models in computer-aided analysis of working capital management, financial forecasting, financial planning, capital budgeting, leasing problems, investments and other financial issues.

331L Financial Management Lab (1)

Corequisite: Finance 331. Laboratory in computer assisted financial analysis Instructional fee required.

332 Theory of Corporate Finance (3)

Prerequisite: Finance 331 (may be taken concurrently). Risk and return analysis. An introduction to the capital asset and arbitrage pricing models. Analysis of capital budgeting, capital structure, dividend policy, leasing, mergers and divestitures.

340 Introduction to Investments (3)

Prerequisite: Finance 331 (may be taken concurrently). Institutional characteristics of securities markets, security valuation and trading methods, fundamental and technical analysis, selection and management of securities, introduction to the capital asset pricing model, role of options and futures markets, portfolio analysis and mutual funds.

351 Real Estate and Urban Land Analysis (3) 1811980 044

Prerequisite: Finance 320 or consent of instructor. Real estate principles, practices and investment decisions. Equity investment, finance, legal aspects, practices, principles, property development, real estate administration in the public sector, real estate market analysis, valuation.

442 Advanced Investment Analysis (3) Prerequisites: Finance 340 an.(E) aparaisal 006

Prerequisite: junior or senior status. Life, casualty and liability insurance, individual and group insurance programs; methods of establishing risks and rates.

370 International Business Finance (3)

Prerequisite: Finance 320 or consent of instructor. Financing problems of international business. The international financial environment, taxation of foreign income, international capital and money markets, problems of risk in foreign investments, and financial techniques for the operation of a multinational firm.

410 Theory & Practice of Personal Financial Planning (3)

Prerequisite: Finance 320. Developing, implementing and monitoring comprehensive personal financial plans. Includes risk management, investments, taxation, retirement and estate planning, as well as professional practices.

411 Retirement and Estate Planning (3)

Prerequisite: Finance 320. Development of retirement objectives, needs and financial condition. Forecasting retirement income from employer based retirement plans, IRAs, insurance policies, social security, investment programs. Medicare, medical, group life and health benefits after retirement. Property titling, wills and transfers in contemplation of death.

425 Commercial Bank and Financial Institution

Management (3)

Prerequisite: Finance 320. The solution of financial institution problems. Major financial intermediaries and the decision-making problems they face. Regulation and its effect on management operations. Group problems and case studies.

432 Financial Forecasting and Budgeting (3)

Prerequisite: Finance 331. Forecasting in financial management; construction and interpretation of economic forecasts for the economy, industry and the firm; construction and interpretation of financial plans; evaluation of capital acquisition decisions under certainty and uncertainty conditions.

433 Problems in Business Finance (3)

Prerequisite: Finance 332. Case studies. Group problems of estimating funds requirements, long-term financial planning, controlling and evaluating cash flows, and financing acquisitions and mergers, capital budgeting, and cost of capital. Group problems and case studies.

440 Capital and Money Markets (3) John Markets (3)

Prerequisite: Finance 320. Capital and money markets in the American economy; markets for new corporate and government issues; secondary markets; interrelation of financial institutions; factors influencing yields and security prices.

442 Advanced Investment Analysis (3)

Prerequisites: Finance 340 and Management Science 361. Securities markets and company analysis, security valuation models the CAPM and the APT option pricing, and portfolio models. Practical application of investment theory and recent literature will be emphasized.

370 Interpational Business Finance (3) "squared Wannard

444 Options and Futures (3)

Prerequisite: Finance 340. Put and call options, option pricing theory and models. Financial futures pricing, hedging strategies and models. Institutional characteristics of futures trading. Options and futures on stock indices. Options on futures, theoretical relationship between options and futures.

451 Real Estate/Land Use Law — Case Studies (3)

Prerequisite: Finance 351. Real estate law. Cases provide illustrations of specific legal situations; financial institutions, property rights, zoning, land use law and environmental impact requirements.

452 Real Estate Finance (3)

Prerequisite: Finance 351. Financial institutions and real estate credit. Sources and uses of capital (funds) in financing real estate transactions. Money and capital markets and their effect on credit availability. Instruments in real estate finance. Investment methods and decisions. Group problems and case studies.

453 Real Estate Valuation (3)

Prerequisite: Finance 351. Real property value, historical evolution of valuation principles, approaches in urban and real property appraisals, alternative methods and techniques for property valuation.

454 Real Estate and Urban Development (3)

Prerequisite: Finance 351. Factors and influences of urban growth and development. Economic factors and real estate supply and demand. Location theory and urban growth patterns. Public policy as a factor in real estate development. Analysis of real estate markets.

455 Real Estate Investment Analysis (3)

Prerequisite: Finance 351. Alternative analytical techniques in evaluating real estate investments. Tax aspects, measurement of investment returns, application of computer models to investment decisions. Lecture, discussion and case analysis of major investment types — raw land, apartment houses, commercial and industrial uses.

456 Property Development and Real Estate Policy Analysis (3)

Prerequisite: Finance 351. Decision making process in the property development process — from raw land to retail marketing of completed product. Policy formulation and implementation, project feasibility analysis, financial analysis, computer assisted analysis; case studies.

495 Internship (1-3)

Prerequisites: Finance 331 or 332, a concentration in finance, consent of department internship adviser, junior standing, 2.5 GPA and one semester in residence at the university. Also open to international business majors. Planned and supervised work experience. May be repeated for credit up to a total of six units. Credit/No Credit only.

499 Independent Study (1-3)

Prerequisites: senior standing and approval by department chair. Open to undergraduate students desiring to pursue directed independent inquiry. May be repeated for credit. Not open to students on academic probation.

517 Managerial Finance (3) 100 assertiand anionantil 106 sons

Prerequisites: Accounting 510 and classified SBAE status. The methodology of financial management. The primary tools for financial analysis, long-term investment decisions, valuation and working capital management. International applications.

523 Seminar in Corporate Financial Management (3)

Prerequisites: Finance 517 and classified SBAE status. The analysis of the financial decision-making process through case studies and seminar presentations. Current financial theory and models. International applications. Instructional fee required.

533 Seminar in Financial Administration (3)

Prerequisites: Finance 523 and classified SBAE status. Optimal financing and asset administration; advanced techniques of capital budgeting; application of analytical methods to the administration of the finance function of the business firm.

540 Seminar in Financial Markets (3)

Prerequisites: Finance 517 or equivalent and classified SBAE status. Structure and operation of major financial institutions; portfolio composition, price-cost problems, and market behavior; analysis of financial intermediation and interrelation of financial institutions and markets.

541 Seminar in Investment Management (3)

Prerequisites: Finance 517 or equivalent and classified SBAE status. Problems of investment and portfolio management; concepts of risk evaluation and investment criteria; analysis of interest rate movements; investment valuation and timing; regulation and administrative problems of the industry.

551 Seminar in Real Estate Investment (3)

Prerequisites: Finance 517 or equivalent and classified SBAE status. Problems of real estate investment; concepts of evaluation and investment criteria; analysis of real property values; real estate development and financing. Case studies.

570 Seminar in International Financial Management (3)

Prerequisites: Finance 517 or consent of instructor and classified SBAE status. The financial problems of the multinational firm. International financing instruments, capital investment decisions, and constraints on the profitability of multinational businesses.

597 Project (3)

Prerequisite: classified SBAE status. Directed independent inquiry. Not open to students on academic probation.

599 Independent Graduate Research (1-3)

Prerequisites: classified SBAE status, consent of instructor and approval by department chair. May be repeated for credit. Not open to students on academic probation.

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International Business Program

Program Coordinator: Irene Lange Program Office: Langsdorf Hall 626

Program Offered

Bachelor of Arts in International Business

Program Council

Peng Chan (Management) Linda Andersen (Foreign Languages) Dennis O'Conner (Finance) Irene Lange (Marketing) Doris Merrifield (German) Vincent Dropsy (Economics) Marcial Prado (Spanish)

Advisers

The Business Advising Center, Langsdorf Hall 700, provides information on admissions, curriculum and graduation requirements, registration and grading procedures, residence and similar academic matters. Additional advising on curriculum content and career opportunities is available from the International Business Program:

International Business: Irene Lange French: Linda Andersen German: Doris Merrifield Japanese: Keiji Matsumoto Portuguese: Ronald Harmon Marcial Prado Spanish: Eva Van Ginneken Other languages:

INTRODUCTION

The international business curriculum covers the fundamentals of business administration, with an emphasis on international business. Foreign language courses are required and stress the use of the language in international business. The program also includes an internship with an international business. This curriculum prepares students for entry level positions in international business. Opportunities exist in contracts, distribution and sales and may lead to general management positions. Since Southern California is a major international business center, there are career opportunities with internationally oriented firms in this area. Other career opportunities may involve international travel or overseas assignments.

Language concentrations are offered in French, German, Japanese, Portuguese, and Spanish. Other concentrations may be developed in the future. The program is offered jointly by the School of Business Administration and Economics and the Department of Foreign Languages and Literatures.



Prize In International Business

The Dennis Rippin-International Marketing Association Scholarship (3) quintib Culture (3) quidsalohSC

Preparation For The Major

Students who expect to complete this program in the usual fouryear period should realize that the total requirements, including general education courses and prerequisites, can exceed 124 semester units. Intermediate level competency in a foreign language, equivalent to courses numbered 204 in the Department of Foreign Languages and Literatures, is prerequisite to the required concentration courses. It is therefore strongly recommended that students complete a minimum of three years of foreign language study while in high school. Similarly, algebra and geometry are necessary for many required business courses. The equivalent of three years of high school mathematics, including a second course in algebra, is the prerequisite for the required Mathematics 135, Business Calculus. Students without the necessary background will need to enroll in Mathematics 115, College Algebra.

BACHELOR OF ARTS IN INTERNATIONAL BUSINESS

Admission to the International Business major involves two steps. Students who apply to the major are initially classified as Pre-international business. After completing the lower-division core requirements with grades of at least "C", and demonstrating satisfactory progress toward intermediate competency in a foreign language, students may apply to the International Business major. Pre-international business students may take lower-division business courses, but most upper-division courses are not open to Preinternational business students.

All of the following requirements must be met for the degree. Students must earn a grade of at least C in each course listed below. However, a C average will be acceptable in the required concentration courses. For assistance in interpreting these requirements, contact the Business Advising Center, Langsdorf Hall 700, 400 of a great is ment A to a suppose and site

Required Lower-Division Core Courses

Economics 201 Principles of Microeconomics (3) Economics 202 Principles of Macroeconomics (3)

Note: Economics 210, Principles of Economics (5), may be substituted for Economics 201 and 202.

Math 135 Business Calculus (3)

or Math 130 A Short Course in Calculus (4)

or Math 150A Analytic Geometry and Calculus (4)

Accounting 201A, B Accounting (3,3)

Management 246 Business Law (3)

Manag Sci 265 Introduction to Information Systems and

Computer Programming (3)

Intermediate competency in the appropriate foreign language is prerequisite to the required concentration courses. If necessary, students should enroll in French, German, Japanese or Spanish 101, 102, 203 and/or 204, or, for students with previous study of a romance language, Portuguese 101 and/or 102. Students may enroll at any point in this sequence of courses for which their previous study and/or experience have prepared them. Normally, two or three years of high school language study are counted as the equivalent of 10 units of college language study. Students should consult an adviser in the Department of Foreign Languages and Literatures before enrolling in their first foreign language course.

English Proficiency Requirement

Cal State Fullerton Examination in Writing Proficiency (EWP)

Business Administration 301 Business Writing (3) or Business Administration 301W Business Writing Workshop (3)

Note: Business Administration 301 should be taken before registering for any 400-level SBAE courses.

Required Upper-Division Core Courses

International business majors shall not enroll in any required upper-division core course until they have completed all of the required lower-division core courses with a grade of at least "C" in each course. Students desiring to enroll in required upper-division core courses while concurrently completing the last of their required lower-division core courses may select only Business Administration 301, Economics 335 and/or Manag Sci 361.

Economics 335 International Economy (3)

Finance 320 Business Finance (3)

Finance 370 International Business Finance (3)

Management 339 Principles of Management & Operations (4)

Management 340 Organizational Behavior (3)

Manag Sci 361 Probability and Statistical Methods in Business and Economics (4)

Marketing 351 Principles of Marketing (3)

Marketing 445 Multinational Marketing Strategy (3)

And a minimum of three units chosen from among the following electives. It is recommended that students take up to 12 units of electives, if possible. I and more and told damage 118 damage

Anthropology 414 Economic Anthropology (3)

Anthropology 412 Culture Change (3)

Comp Lit 453 The Novel in France and Germany (3)

Geography 333 Latin America (3)

Geography 336 Europe (3)

Geography 344 Africa (3)

Geography 360 Economic Geography (3)

History 350 History of Latin America Civilization (3)

History 429 Europe Since 1914 (3)

History 453 Modern Mexico (3)

Philosophy 312 Business and Professional Ethics (3)

Poli Sci 430 Government/Politics of a Selected Nation-

State (3)*

Poli Sci 431 Government/Politics of a Selected Area (3)*

Poli Sci 457 Politics of International Economics (3)

Speech Comm 320 Intercultural Communication (3)

Required Concentration

(choose one of the following concentrations)

Concentration in French:

French 310 French in the Business World (3)

French 311 French for International Business (3)

French 315 Origins of Modern France (3)

French 325 Contemporary French Civilization (3)

Concentration in German:

German 310 German in the Business World (3)

German 311 German for International Business (3)

German 315 Introduction to German Civilization (3)

German 325 Current Trends in Culture of German Speaking

People (3) International number majors shall not smoll in any

Concentration in Japanese:

Japanese 310 Japanese for Business (3)

Japanese 311 Japanese for International Business (3)

Japanese 315 Introduction to Japanese Civilization (3)

Japanese 316 Modern Japan (3)

Concentration in Portuguese:

Portuguese 310 Portuguese in the Business World (3)

Portuguese 317 Advanced Conversation and Composition (3)

Portuguese 320 Introduction to Luso-Brazilian Culture and

Civilization (3)

Portuguese 325 Contemporary Brazilian Civilization (3)

One of the following courses may be substituted for Portuguese 320 or 325:

Spanish 310 Spanish in the Business World (3)

Spanish 311 Spanish for International Business (3)

Concentration in Spanish:

Spanish 310 Spanish in the Business World (3)

Spanish 311 Spanish for International Business (3)

Spanish 315 Introduction to Spanish Civilization (3)

Spanish 316 Intro to Spanish-American Civilization (3)

Language concenencion aura official in language of the language

TELEGOP 330 PROBES STEAM AMERICA CONTINUENCE (1984) When topic is appropriate. Note: Students may substitute one of the following for Spanish 315 or 316:

Spanish 415 Contemporary Spanish Culture (3) gidensloods

Spanish 416 Contemp Spanish-American Culture (3)

Concentrations in Other Languages

Students may pursue concentrations in other languages by developing an approved program of study. In order to exercise this option, students must meet with, discuss and gain prior approval of their study plan from the Chair, Department of Foreign Languages and Literature and Chair, International Business Program. In some cases, students will be required to complete coursework on other university campuses.

Required Internships

Foreign Languages 495 Internship (3)

and one of the following:

Economics 495 Internship (3)

Finance 495 Internship (3)

Management 495 Internship (3)

Management Science 495 Internship (3)

Marketing 495 Intership (3)

All students are required to spend a minimum of four months in full-time employment with a faculty-approved firm having international dealings and in which daily use of a foreign language is normal procedure. (Highly qualified students, i.e., those having a 3.2 GPA in their upper-division core and concentration courses, will be aided in finding six-month positions abroad). Simultaneous enrollment in the two required internships is therefore expected, and students normally will not take any other course work during this period.

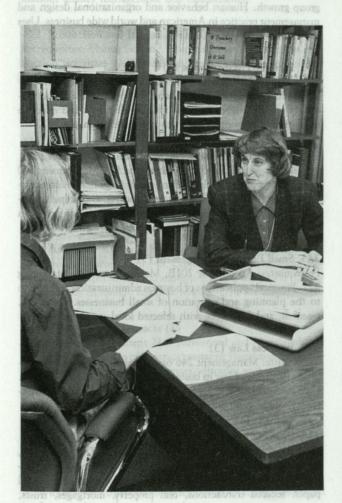
Other Requirements

Other Subjects: Complete at least 50 percent of the coursework for the degree in subjects other than business administration or economics. Complete all university requirements for the bachelor's degree.

Grade Point Average (GPA): Attain at least a 2.0 GPA (C average) in all university courses and in the concentration courses. Earn at least a C grade in each course required for the major (other than concentration courses).

Grade Options: Take all required core and concentration courses for a letter grade (A,B,C,D,F). The credit/no credit grading option may not be used for these courses, and a grade of CR (credit) will not satisfy the requirements of the degree. Exceptions: Calculus (Math 130, 135 or 150A) and Internship may be taken under the credit/no credit option, although courses taken to meet general education requirements must be taken for a letter or Meth 150A Analytic Geometry and Calculus (4) .abarg

Residence: At least 12 units of upper-division core courses, 6 units of upper-division concentration courses and 6 units of internships must be taken in residence at CSUE



349 Law for Small Business (3) at a in succession was 1 946

Presequiate: Management Q460 The philosophy, institutions.

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410 Information Resources Management (3) I a version of the

Prerequisite: Management 344. This course recognizes the ex-

panding role of information systems in the overall stratecy and management of orasnizations. The management of the organiza-tion information resources includes personnel, planning and

340 Organizational Behavior (3) or entry? anotarred 1114. Prerequisitest general education in social sciences. Social and

Department of Management

Department Chair: Thomas E. Maher Department Office: Langsdorf Hall 640

Department offers courses which may be in Programs Offered Bachelor of Arts in Business Administration Concentration in Management Master of Business Administration

Concentration in Management of side beve dels at both solution

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Farouk Abdelwahed, Michael Ames, Thomas Apke, Mei Liang Bickner, Peng Chan, Ellen Dumond, Gamini Gunawardane, Ghasem Haj-Manoochehri, Cheong Han, Dorothy Heide, Granville Hough, Richard Houston, Thomas Johnson, Geoffrey King, Brian Kleiner, Elliot Kushell, Thomas Maher, Thomas Mayes, Leland McCloud, Kent McKee, Tai Oh, Hamid Tavakolian, Gustavo Vargas, Edward Zilbert

Advisers

The Business Advising Center, Langsdorf Hall 700, provides information on admissions, curriculum and graduation requirements; registration and grading procedures; residence and similar academic matters. In addition, the Management Department provides advising on career opportunities and on the emphases within the Management Concentration: See Business Administration, Management Concentration

Contract Manag. Entrepreneurial Manag. General Manag. Human Resource Manag. Operations Manag. Organizational Behavior and Organizational Development

Geoffrey King/Thomas Maher Michael Ames Farouk Abdelwahed Thomas Johnson Thomas Apke Gustavo Vargas Thomas Mayes

INTRODUCTION

Managers are needed in a wide variety of different types of organizations — business and nonbusiness, large and small, foreign and domestic. In all of these organizations, managers need technical, human and conceptual skills to help achieve organizational goals.

Management courses are designed to teach the fundamental principles underlying organizations, to emphasize education which will improve students' thought processes, to provide familiarity with the analytical tools of management, and to develop in the student an ability to use the techniques involved in analyzing and evaluating managerial problems and making sound decisions.

Students may pursue a wide variety of academic and career interests through six different emphases. These emphases include: (1) contract management, (2) entrepreneurial management, (3) general management, (4) human resource management, (5) production and operations management, and (6) organizational behavior.

Credential Information Teamort with Managed

For students interested in a teaching credential, the Management Department offers courses which may be included in the Single Subject Waiver Program in Business and in the Supplementary Authorization Program in Economics and Consumer Education.

Further information on the requirements for teaching credentials is found in the Teaching Credential Programs section of this catalog and is also available from the Department of Secondary Education. Students interested in exploring careers in teaching at the elementary or secondary school levels should contact the Office of Admission to Teacher Education.

Prizes in Management

The Gus Berger Award/Operations Management The H. Peter Guertin/APICS Orange County Chapter Scholarship

The Orange County Industrial Relations Research Association (OCIRRA)

The PERMA Scholarship

BACHELOR OF ARTS IN BUSINESS **ADMINISTRATION**

See "Business Administration, Management Concentration."

MASTER OF BUSINESS ADMINISTRATION

See "Business Administration, Management Concentration".

Management Courses

246 Business Law (3)

Philosophy, institutions and role of law in business and society. Functions of courts and attorneys, case studies in areas of contracts and on the law relating to sale of goods. (CAN BUS 8)

339 Principles of Management and Operations (4)

Prerequisites: all lower division business core courses or instructor's consent; corequisite Management Science 361. Administrative processes in utility-creating business operations: decisionmaking; planning; controlling; organizing; staffing; supporting business information systems; measuring and improving effectiveness; production processes, production operations and institutions in American and worldwide business. Uses the Production Lab. Includes taking the Cal State Fullerton Examination in Writing Proficiency (feecharged).

340 Organizational Behavior (3)

Prerequisites: general education in social sciences. Social and cultural environments of business; corequisite: Management Science 361. Business ethics. Communication, leadership, motivation, perception, personality development, group dynamics and group growth. Human behavior and organizational design and management practice in American and world wide business. Uses the Behavioral Lab.

343 Personnel Management (3)

Prerequisite: Management 339 or consent of instructor. The personnel function, its activities, and its opportunities. Management's responsibilities for selection, development and effective utilization of personnel. Open to non-business majors.

344 Introduction to Management Information Systems (3)

Prerequisite: Manag Sci 265, Management 339, Management 340 and passing grade on MIS qualifying exam. Organizational foundations of information systems, systems concepts, contemporary approaches to building information systems, managing information resources, issues in information technology management.

345 Small Business Management (3)

Prerequisites: Accounting 201B, Management 339, Marketing 351. Practical applications of business administration techniques to the planning and operation of small businesses. Casework, research, and field work with selected local small businesses.

347 Business Law (3)

Prerequisite: Management 246 or equivalent. Philosophy, institutions and role of law in business relationships. Business ethics. Case studies in areas of agency, partnerships, corporations, bankruptcy, unfair competition and trade regulation.

348 Business Law (3)

Prerequisite: Management 246 or equivalent. The philosophy, institutions and role of law in commercial and personal transactions: case studies in personal property, bailments, commercial paper, secured transactions, real property, mortgages, trusts, community property, wills, estate administration and insurance.

349 Law for Small Business (3)

Prerequisite: Management 246. The philosophy, institutions, and role of law and their practical applications in the areas of interest to the small businessperson. Product liability, consumer rights, worker's compensation and other topics.

410 Information Resources Management (3)

Prerequisite: Management 344. This course recognizes the expanding role of information systems in the overall strategy and management of organizations. The management of the organization information resources includes personnel, planning and control, technological trends, management implications, managing the MIS department.

421 Operations Systems Design (3)

Prerequisites: Manag Sci 362. Managerial problems associated with designing an operations system, including product and process design, facilities planning, capacity choice, job design, automation, quality management and maintenance.

areas of enforceable agreements, products liability, employme 422 Production and Inventory Control (3)

Prerequisites: Manag Sci 362. Planning and controlling of production activities and inventory levels. Identification of key problem areas. Presentation of applicable techniques and systems, and organizational and managerial concepts. Utilization of computer decision models. Instructional fee required.

431 Women in Management (3)

Prerequisite: Management 340. (For men and women.) Increasing participation in the management of organizations. Employment and earnings, affirmative action, understanding male-female and female-female work relationships, dual careers, and learning how to increase one's effectiveness in organizations.

433 Advanced Topics in Human Resource Management (3)

Prerequisite: Management 343. Contemporary concepts and procedures in compensation and staffing. Current topics and controversial issues in human resource management are also covered.

436 Government Contracts (3)

Prerequisite: Management 246. Advertised and negotiated procurement and the role of contract manager. Fiscal and regulatory limitations. The nature of changes, disputes and termination. Contract terms and conditions and administration.

439 Organizational Change and Development (3)

Prerequisite: Management 340 or equivalent; senior or graduate status. Utilizing behavioral science knowledge to improve organizational effectiveness. Diagnosing organizational problems; designing planned change; individual-, group- and organizationallevel interventions; overcoming resistance to change and issues in the consultant-client relationship.

599 Independent Graduate Research (1-3)

440 Emerging Issues in Management (3)

Prerequisites: Management 339 and 340 or consent of instructor. For upper-division and graduate students. Business and management in America. The interrelationships of technological, economic, political and social forces with the business enterprises and their ethical obligations to owners, employees, consumers and society at large. Open to nonbusiness majors.

441 Labor-Management Relations (3)

Prerequisite: Management 339. Impact of labor-management relations upon labor, management, and the public. Proper grievance procedure, collective bargaining and settlement of disputes. Uses the Behavioral Lab.

442 Grievance Handling and Arbitration (3)

Prerequisites: Management 441 or consent of instructor and Management 340. In-depth study of the grievance procedures and the arbitration process and procedure in the private sector. Topics include discipline, contract interpretation, arbitrable issues, management right issues, such as subcontracting and employee rights. Uses cases and simulations.

443 Group Dynamics (3)

Prerequisites: Management 339, 340 or consent of instructor. Case studies and current literature on human problems of work situations. Developing self-knowledge; manager motivation; communicator strengths; improving interaction skills; and improving interaction processes in groups. Uses the Behavioral Lab.

444 Project Management (3)

Prerequisites: management and management science core and other 300 level management courses in student's concentration. Technology for managing business and other enterprises as cybernetic systems. The design and control of systems appropriate for product, project and program levels of analysis. (2 hours lecture, 2 hours activity) Uses Production Lab. Instructional fee required.

495 Internship (1-3)

445 Operations Policy & Strategy (3)

Prerequisites: Management 421, Management 422, and Manag Sci 362. Long term planning issues in operations and integrating operations strategy into corporate strategic planning. Covers planning facilities, processes, capacity, support and control systems. Case studies and projects. Uses production and computer labs. Instructional fee required. amelians no amelians of rego

447 Management Decision Games (3)

Prerequisites: business administration core less Management 449, or consent of instructor. A simulation of an oligopolistic industry. Statistics and other analytical tools to make managerial decisions in management. (2 hours lecture; 2 hours activity)

ations: Interpersonal behavior, planning, control, organismig

448 Seminar in Small Business Consulting (3)

Prerequisites: Accounting 201B, Management 339, Marketing 351 and senior standing. A seminar, Planning and working in a consulting relationship with small local businesses. Lectures, research and field work. (1 hour lecture, 6 hours field work)

449 Seminar in Business Policies (3)

Prerequisites: all other School of Business Administration and Economics core courses and departmental approval. Integrative cases from top management viewpoint. Administrative processes, ethical-legal-economic implications of business decisions, international applications; organization theory and policy formulation. Individual and team efforts. Uses the Behavioral Lab.

454 MIS Analysis and Design (3)

Prerequisites: Management 344, Manag Sci 408 and Manag Sci 409. Case-oriented seminar focusing on tools and techniques for systems analysis and design including communications structure and techniques, computer aided software, models and modelling, and project management; systems development life cycle and other types of systems development; strategic and administrative concepts and techniques.

490 Seminar in Management Information Systems (3)

Prerequisites: 300-level business core courses, Accounting 302, Management 344, 444 (or 454), and Manag Sci 309. Senior seminar and applications in the design, implementation and use of management decision/information systems.

495 Internship (1-3)

Prerequisites: six units of upper division management courses, including Management 339, major in management or international business, consent of department internship adviser and at least junior standing, 2.5 GPA and one semester in residence at the university. Planned and supervised work experience. May be repeated for credit up to a total of six units. Credit/No Credit only.

445 Operations Policy & Strategy (Michaelonic AMMER) 499 Independent Study (1-3)

Prerequisites: management concentration, senior standing, and approval by faculty sponsor and department chair of proposed statement of work. Open to qualified students desiring to pursue directed independent inquiry. May be repeated for credit. Not open to students on academic probation.

516 Organizational Theory and Management of Operations (3)

Prerequisites: classified SBAE status, Manag Sci 514 (may be taken concurrently), Accounting 510, Economics 515. Modern organization theory and application in utility-creating operations. Interpersonal behavior, planning, control, organizing, directing, communication, production and information systems, and measures of effectiveness. International applications. Business ethics and relationships to society and politics. Graduate discussion and research reports.

449 Seminar in Business Policies (3) will turn consecut out

518 Legal Environment of Business (3)

Prerequisites: classified SBAE status. Law applicable to business institutions and inherent in business decisions with consideration of the ethical, social and political influences as they affect business organizations and operations both here and abroad; nature and sources of law, the judicial system and case studies in areas of enforceable agreements, products liability, employment, business organizations and trade regulation.

524 Seminar in Organizational Behavior & Administration (3) Prerequisites: classified SBAE status, Management 516 and 518 or equivalent. Human behavior in organizations, studies in organizational theories, and administrative action.

535 Production/Operations Management (3)

Prerequisites: Management 516 and Management Science 514. An in-depth study of selected POM topics. Discussions of the operations function role and its importance, identification of the problem areas, and reviewing of the related concepts and techniques, including computer applications. Emphasizing the current POM topics of interest to top management.

542 Seminar in Labor-Management Relations (3)

Prerequisites: classified SBAE status, Management 516 and 518. A seminar that focuses on various aspects of the labor-management relationship, issues in collective bargaining, the laws governing the relationship, contract administration, grievance handling, dispute settlement and arbitration. Negotiation simulation and case analyses. (8) appropriate (3) of the

543 Seminar in Personnel Administration (3)

Prerequisites: classified SBAE status, Management 516 and 518, or equivalent. Cases, problems and significant personnel administration literature in personnel administration and human relations.

547 Comparative Management (3)

Management practices and processes in five geographical areas; market-structures and management characteristics different from those in the United States. Constraints which vary between countries because of cultural, legal, economic and/or political differences.

599 Independent Graduate Research (1-3)

Prerequisites: classified SBAE status, consent of instructor and consent of department chair. May be repeated for credit. Not open to students on academic probation.

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Management Information Systems



Coordinator: Eugene Corman Coordinator's Office: Langsdorf Hall 362

Programs Offered

Bachelor of Arts in Business Administration

Concentration in Management Information Systems

Minor in Management Information Systems

Committee

Eugene Corman (Accounting) Bharat Lakhanpal (Management Science) Andrew Luzi (Accounting) Sorel Reisman (Management Science) Hamid Tavakolian (Management) Gustavo Vargas (Management)

Advisers

The Business Advising Center, Langsdorf Hall 700, provides information on admissions, curriculum and graduation requirements; registration and grading procedures; residence and similar academic matters. In addition, advising about curriculum content and career opportunities is available from the coordinator and the committee members listed above.

INTRODUCTION

Management information systems are computer based information systems. These systems aid management in making decisions and assist in implementing and controlling management policies. Management information systems are used in business, industry and government operations. Applications include airline reservations, banking transactions, crime prevention networks, election returns, real estate assessment, tax records, newspaper databases, sports statistics and computer assisted learning.

Management information systems incorporate the use of data processing equipment, such as computers and their peripherals. Computer software is used to create, maintain and retrieve information. Techniques include mathematical modeling and statistics, integrated with modern computer technology. These methods are applied to systems management, programming design, analysis of information flow, decision support, database organization, small business problems, data communication networking and distributed processing.

Prizes in Management Information Systems

Outstanding Management Information Systems Undergraduate Award

BACHELOR OF ARTS IN BUSINESS **ADMINISTRATION**

See "Business Administration, Management Information Systems Concentration."

MINOR IN MANAGEMENT INFORMATION SYSTEMS*

This minor surveys modern computer methods and the development of information-systems. Emphasis is placed on systems which aid management decision-making. Students must earn a grade of at least C in each course listed below.

Accounting 201A Financial Accounting (3) Management Science 265 Introduction to Information Systems & Computer Programming (3) Management Science 270 File Concepts and COBOL Programming (3)

Management Science 309 Elements of Information Systems Design (3)

Management 344 Introduction to Management Information Systems (3)

Management Science 408 Data Base Management Systems (3)

Note: Manag Sci 265, 270 and/or 408 may be waived for students who have taken these courses, or their equivalents, as part of their major. However, students must complete a minimum of 12 units for the minor, so that if all three courses are waived, 3 units of electives (to be approved by the MIS Program Coordinator), must be added. Recommended electives include Management Science 365, 370, 409, 411, 415 and 418.

^{*}Students with a major in business administration may not minor in management information systems. Such students should consult the Business Administration curriculum for concentration in management information systems.

Department of Management Science



Department Chair: Zvi Drezner Department Office: Langsdorf Hall 540

Programs Offered Bachelor of Arts in Business Administration

Concentration in Management Science

Master of Business Administration

Concentration in Management Science

Master of Science in Management Science

Concentration in Management Information Systems Concentration in Operations Research Concentration in Statistics

Faculty

Shu-Jen Chen, Roger Dear, Zvi Drezner, Ben Edmondson, Nicholas Farnum, Daryoush Farsi, Zvi Goldstein, S. Hanizavareh, William Heitzman, Bhushan Kapoor, Ramesh Kumar, Mabel Kung, Bharat Lakhanpal, William Lau, John Lawrence, George Marcoulides, Do Le Minh, Barry Pasternack, Sorel Reisman, Herbert Rutemiller, Joseph Sherif, Sohan Sihota, Ram Singhania, LaVerne Stanton, Ronald Suich

Advisers

The Business Advising Center, Langsdorf Hall 700, provides information on admissions, curriculum and graduation requirements; registration and grading procedures; residence and similar academic matters. In addition, the Management Science Department provides advising about curriculum content and career opportunities:

Graduate Program: Zvi Drezner, John Lawrence Statistics: George Marcoulides, Sohan Sihota, La Verne Stanton, Ronald Suich

Information Systems: Mabel Kung, Bharat Lakhanpal, William Lau, Sorel Reisman, Ram Singhania

Operations Research: Roger Dear, Zvi Drezner, John Lawrence, Barry Pasternak ammang I and mort aldaliave oale at bine polistic

INTRODUCTION

Management Science is the application of the scientific method to decision-making in business and government. In practice, nearly all management science problems involve solutions using computers. Three of the major disciplines in management science are operations research, statistics and information systems. Operations research uses mathematical and simulation models to provide decision-makers with quantitative information pertaining to complex business situations. Statistics assists decision-makers by using techniques designed to draw inferences from experimental and sampling data. Information systems focus on the application of modern computer technology to provide accurate and relevant data to aid decision-making.

Situations that require operations research techniques arise in all areas of business: accounting, finance, production, marketing, and research and development. Among the problems addressed by operations research techniques are the determination of inventory strategies, the allocation of scarce resources and the design of service systems. Others include bidding in competitive environments, selection of equipment replacement strategies and scheduling the completion of large projects.

The statistician is often involved in activities such as sales forecasting, quality control and financial analysis. Statistics is also concerned with model building and the design of experiments dealing with product testing, surveys and sampling.

Information systems is concerned with the management of large databases and the efficient reporting of timely information to decision makers. It relates to both the data processing hardware and the computer software. The hardware includes the computer and its peripheral equipment. The software is used to create, maintain and retrieve information. Information systems methods integrate mathematical modeling and statistics with modern information and computer technology. These methods are applied tosystems management, analysis of information flow, and programming design. 1000 muluomus mode grietybe esbiyong mem

Credential Information

For students interested in a teaching credential, the Department of Management Science offers courses which may be included in the Single Subject Waiver Program in Business.

Further information on the requirements for teaching credentials is found in the Teaching Credential Programs section of this catalog and is also available from the Department of Secondary Education. Students interested in exploring careers in teaching at the elementary or secondary school levels should contact the Office of Admission to Teacher Education, Education Classroom

Prizes in Management Science

Outstanding Management Science Undergraduate Award Outstanding Management Science Graduate Student Award

BACHELOR OF ARTS IN BUSINESS **ADMINISTRATION**

See "Business Administration, Management Science Concentration."

MASTER OF BUSINESS ADMINISTRATION

See "Business Administration, Management Science Concentration."

MASTER OF SCIENCE IN MANAGEMENT SCIENCE

The Master of Science in Management Science program provides the conceptual understanding and technical competence for a career in management science. Emphasis is placed on the use of scientific method to allocate resources so as to maximize profit or minimize cost. Specializations include operations research, management information systems and statistics. These techniques are widely used in both private business and public enterprise. Employment opportunities include positions such as management analyst, data processing manager, statistician and forecaster.

The M.S. in Management Science program is scheduled especially for students who are employed full time. Courses are offered during the late afternoon and evening.

The curriculum should appeal to students with undergraduate degrees in business administration, computer science, mathematics, engineering or science. For students with an undergraduate degree in business administration, the 10-course (30-unit) curriculum may be completed in 21/2 years (part time). In addition to a three-course survey of management science methods, the curriculum includes management science applications, electives, and a terminal research project. Students with a bachelor's degree in a field other than business administration must first complete the eight M.B.A. Foundation Courses (26 units) or equivalent undergraduate courses.

Cal State Fullerton is the only university in Orange County accredited by the American Assembly of Collegiate Schools of Business. This assures a rigorous program, a well-qualified faculty, high standards for students, and access to an extensive library system. The qualifications of the M.S. in Management Science faculty include advanced degrees in operations research, statistics and applied mathematics; extensive computer experience; and practical experience in business, industry and government. Cal State Fullerton is the only campus within The California State University offering an M.S. in Management Science.

Most graduate courses in the School of Business Administration and Economics require "classified SBAE status" and are open only to students with classified standing in the M.S. in Management Science, M.S. in Taxation, M.A. in Economics, M.B.A. or M.S. in Accountancy programs.

Students meeting the following requirements will be admitted to postbaccalaureate unclassified standing:

- 1. Acceptable bachelor's degree from an institution accredited by a regional accrediting association, or equivalent.
- 2. Grade-point average of at least 2.5 in the last 60 semester units attempted and in good standing at last college attended.

Postbaccalaureate unclassified students may enroll in undergraduate courses (100 through 400 level) but are generally ineligible for graduate business courses (500 level). Such students may wish to take undergraduate courses which are necessary to meet the requirements for classified standing (see below). Upon completing the requirements, the student may file an "Application for Change of Academic Objective Graduate" requesting admission to the M.S. in Management Science program. Admission to the university as a postbaccalaureate unclassified student does not constitute admission to the M.S. in Management Science program, does not confer priority, nor does it guarantee future admission. Students planning to apply for admission to the M.S. in Management Science program should confer with the graduate adviser in the School of Business Administration and Economics.

Students meeting the following additional requirements will be admitted to the M.S. in Management Science program with conditionally classified standing:

- 3. Combination of grade-point average and score on the Graduate Management Admission Test (GMAT) sufficient to yield a score of at least 950 according to one of the following formulas. Due to limited facilities and resources in the School of Business Administration and Economics, a higher score may be required of all applicants.
 - A. If overall undergraduate GPA is at least 2.5 and GMAT is at least 450, then score = (GPA x 200) + GMAT.
- B. If overall undergraduate GPA is below 2.5 or GMAT is below 450, then score = $(GPA \times 200) + GMAT - 50$.
- C. If GPA is based on the last 60 semester units of course work, then score = (GPA x 200) + GMAT - 100.

Conditionally classified students may take a limited number of graduate courses (500 level) subject to the approval of the graduate adviser of the School of Business Administration and Economics. Students may take whatever courses are necessary to fulfill requirement 4 (below) while enrolled as conditionally classified students. In addition, a maximum of 9 units (three courses) from the M.S. in Management Science curriculum may be taken while in conditionally classified standing.

Students meeting the following additional requirements will be advanced to classified standing. Such students are eligible to take graduate courses for which they are qualified.

4. A bachelor's degree with a major in business administration which meets the requirements stated in this catalog for such degrees. The degree must include calculus and computer programming equivalent to passing Mathematics 135, Business Calculus (3 units), and Management Science 264, Introduction to Computer Programming (2 units), with grades of at least C. Courses in the major are to be no more than seven years old, and must have at least a 3.0 (B) grade-point average. Courses with grades lower than C must be repeated. Applicants with a bachelor's degree in a field other than Business Administration may meet this requirement by passing the courses in calculus and computer programming (above) with grades of at least C, and also the Foundation Courses within the curriculum of the Master of Business Administration (27 units, including Accounting 510; Business Admin 590; Economics 515; Finance 517; Management 516, 518; Management Science 513, 515 and Marketing 519).

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5. Approval of study plan.

Curriculum

The curriculum requires 30 semester units of course work beyond the baccalaureate degree. At least 18 of the 30 units required for the degree must be at the graduate level. A grade-point average of 3.0 (B) is required. Any study plan course in which a D is received must be repeated and must receive at least a C grade regardless of the overall GPA of the student.

The requirement for a concentration is to satisfactorily complete at least 15 units of courses (required and/or elective) in a specified field: Management Information Systems, Operations Research or Statistics. A concentration is not required for the degree.

Required Courses (9 units)

Manag Sci 526 Forecasting, Decision Analysis and Experimental Design (3)

Manag Sci 550 Special Topics on Information Systems Design and Data Communication (3)

Manag Sci 560 Advanced Deterministic Models (3) or Manag Sci 561 Advanced Probabilistic Models (3)

Management Science Applications and Electives (18 units)

Courses to be selected in consultation with, and approved by, the student's adviser from the following:

Applications in Business and Economics (3 units)

Accounting 511 Seminar in Managerial Accounting (3) Note: Students with credit for cost accounting may substitute Accounting 521, Seminar in Administrative Accounting (3)

^{*}All work within any given quarter or semester must be included even though that will result in more than 60 semester units. The units to be included in the last 60 semester units may come only from the following: (1) work taken in postbaccalaureate status during the last seven years toward fulfilling M.S. in Management Science course work requirements; (2) units taken under a prescribed remedial program agreed to by the Associate Dean, School of Business Administration and Economics;(3) units earned prior to the bachelor's degree.

Economics 502 Adv. Microeconomic Analysis (3) Finance 523 Sem in Corporate Financial Management (3)

Management 444 Project Management (3) or Marketing 525 Seminar in Marketing Problems (3)

Electives (15 units) (2) mm (2) parameters of people (2) or solt

Courses may be chosen from one or more of the following fields:

Operations Research:

A general approach to decision-making based on scientific method.

Manag Sci 560 Advanced Deterministic Models (3)

Manag Sci 561 Advanced Probabilistic Models (3)

Manag Sci 580 Linear Programming (3)

Manag Sci 585 Queueing and Stochastic Processes in

Business and Economics (3)

Management Information Systems:

Computer methods for collecting, analyzing and reporting data to aid in management decision making.

Manag Sci 408 Data Base Management Systems (3) or Manag Sci 555 Data Structures and Data Base Management (3)

Manag Sci 409 Distributed Data Processing (3)

Manag Sci 411 Data Process with Small Computers (3)

Manag Sci 415 Decision Support and Expert Systems (3)

Manag Sci 416 Computer Performance Evaluation (3)

Manag Sci 418 Privacy, Security and Data Process (3)

Statistics:

Collecting, analyzing, and interpreting data.

Manag Sci 420 Applied Statistical Forecasting (3)

Manag Sci 422 Surveys and Sample Design and Applications Required Courses (9 mits)

regardless of the overall OPA of the student.

Manag Sci 461 Statistical Theory for Management Science (4)

to Manag Sci Sor & Advinced Probabilistic Models (3) that a

Manag Sci 467 Statistical Quality Control (3)

Manag Sci 472 Design of Experiments (3)

Manag Sci 475 Multivariate Analysis (3)

Variable Topic:

Manag Sci 590 Seminar in Management Science (3)

Terminal Evaluation

Manag Sci 576 Business Modeling and Simulation Accounting 511 Seminar in Managerial Accounting (3)

Note: Students with Stellin for Social managerial accounting may substitute.

Comprehensive Exam

Management Science Courses

263 Introduction to Information Systems and Micro-Computer Applications (2) and earned aldergood . I

Concepts of micro and mainframe computers and peripheral equipment; hardware and software concepts; representation of Data; auxiliary storage and file organization; data communications. Hands-on examples of business applications in micro-computer classroom. Students may not receive credit for both Management Science 263 and 265. As harrised and attention of the second and agement science 263 and 265.

264 Introduction to Computer Programming (2)

Computer programming in the BASIC language, including file processing and other applications to business data processing.

265 Introduction to Information Systems and Computer Programming (3)

Introduction to information systems; computer organization and problem-solving concepts; computer programming in the BASIC language, including file processing; applications to business data processing. Micro Computer applications and hands-on examples in a microcomputer classroom. Instructional fee required.

265L Computer Programming Lab (1)

Corequisite: Management Science 265. Hands-on computer programming experience for common business problems using spread sheets, word processing, BASIC, data base management and graphics software.

270 File Concepts and COBOL Programming (3)

Prerequisite: Management Science 264 or 265 or Computer Science 112 or equivalent. Structured COBOL; multiple-level table handling, subscripting and indexing; file organization documentation; report generation; sequential file updating.

309 Elements of Information System Design (3) (Formerly 300)

Prerequisite: Management Science 270. Passing grade on MIS qualifying exam. Data management, operating systems, sorting and searching techniques, use of storage devices, interface equipment, random access and sequential titles, data structures; CO-BOL project required.

nomics. Students may take wherever bourses are necessary to

361 Probability and Statistical Methods in Business and Economics (4)

Prerequisites: Math 135 and Management Science 265 or equivalents. Probability concepts; expectations; descriptive statistics; discrete and continuous random variables; sampling; estimation; hypothesis testing; simple and multiple regression; time series; forecasting; nonparametric statistics. Instructional fee required.

362 Management Science Methods in Business and Economics (3)

Prerequisite: Management Science 361 (may be taken concurrently). Mathematical methods and their application to business and economic problems, e.g., production control, scheduling, inventory control, PERT, decision and network analyses, simulation and queueing. Elementary mathematical optimization and production models. Instructional fee required.

365 Advanced BASIC Programming (3) (Formerly 333)

Prerequisite: Management Science 265, passing grade on MIS qualifying exam. Advanced BASIC features: sequential and relative files, sorting and searching, error checking and business system design.

370 Advanced COBOL Programming (3) (Formerly 310)

Prerequisite: Management Science 270 or consent of the instructor. Advanced COBOL features: Indexed and direct file processing, report writer, sort feature, declarative and linkage sections, segmentation. Overlay structure, survey of job control language, libraries. Direct access. Hardware devices.

408 Data Base Management Systems (3)

Prerequisites: Management Science 309. Integrated data base systems; logical organization; data description language (DDL); data manipulation language (DML); data independence; relational data bases; selected data base management systems (DBMS).

409 Telecommunications & Business Applications (3)

Prerequisite: Management Science 309. Communications design, concepts and hardware, telecommunications protocol, Network Architectures and Configurations, LANs security and control, communication services, voice and electronic mail.

411 Advanced Microcomputer Concepts & Applications (3)

Prerequisite: Management Science 365 or 370. This course focuses on contemporary issues in end user computing characterized by microcomputer work statistics. Current hardware/software trends will be analyzed within an industry and systems perspective.

415 Decision Support and Expert Systems (3)

Prerequisite: Management Science 309. Principles and procedures related to the design and use of expert systems and decision support systems principles in management decision making; development of expert systems using shells.

416 Computer Performance Evaluation (3)

(Same as Computer Science 416)

418 Privacy and Security (3)

Corequisite: Management Science 309. Security and privacy problems associated with the use of computer systems; ways to minimize risks and losses.

420 Applied Statistical Forecasting (3)

Prerequisite: Management Science 361. Statistical methods applied to problems in business and industry; practical multiple regression models with computer solutions; basic techniques in time-series analysis of trend, cyclical and seasonal components; correlation of time-series and forecasting with the computer.

422 Surveys and Sampling Design and Applications (3)

Prerequisite: Management Science 361. Principles for designing business and economic surveys. Applications in accounting, marketing research, economic statistics and the social sciences. Sampling; simple random, stratified and multistage design; construction of sampling frames; detecting and controlling non-sampling errors. One credit up to a roral of six units. Credit are roral

440 Deterministic Models in Management Science (4)

Prerequisite: Management Science 362. Deterministic mathematical modeling and solution techniques, including intermediate linear programming, network models, integer programming, dynamic programming.

441 Probabilistics Models in Management Science (4)

Prerequisite: Management Science 362. Probabilistic mathematical modeling and solution techniques for business, including quality control and forecasting models, Markov processes, intermediate queueing theory, probabilistic inventory models.

448 Computer Simulation in Business and Economics (3)

Prerequisites: Management Science 264 and 361 (or equivalents) and Management Science 362. Computer generation of discrete and continuous random variables, their use in computer simulation. Applications include queueing, communications, computer systems, economics, gaming, inventory, scheduling and other management science topics, and the topic and the science topics.

461 Statistical Theory for Management Science (4)

Prerequisite: Management Science 361. Review of mathematical topics needed for statistical theory. Distribution, theory, moment generating functions, central limit theorem. Estimation theory, maximum likelihood, least squares estimation. Hypothesis testing, Neyman-Pearson Lemma. Likelihood ratio tests. Use of statistical software packages.

467 Statistical Quality Control (3)

Prerequisite: Management Science 361. Control charts for variables, percent defective and defects. Tolerances, process capacity; special control charts, acceptance sampling and batch processing problems. Bayesian aspects of process control.

472 Design of Experiments (3) (Formerly 572)

Prerequisite: Management Science 361. Experimental design. Analysis of variance, factorial experiments, nested designs, confounding and factorial replications.

475 Multivariate Analysis (3) (Formerly 575)

Prerequisites: Management Science 361. The least squares principle; estimation and hypothesis testing in linear regression; multiple and curvilinear regression models; discriminant analysis; principle components analysis; application of multivariate analysis in business and industry.

495 Internship (1-3)

Prerequisites: Management Science 361 and 362, and major in management science, or Management Science 309 and major in management information systems or a major in international business, consent of department internship adviser, and at least junior standing, 2.5 GPA and one semester in residence at the university. Planned and supervised work experience. May be repeated for credit up to a total of six units. Credit/No Credit grading only.

499 Independent Study (1-3)

Prerequisites: Management Science 361 and 362, senior standing, and approval by the department chair. Open to qualified students desiring to pursue directed independent inquiry. May be repeated for credit. Not open to students on academic probation.

513 Statistical Analysis (3) 14 of alaboM astradional 144

Prerequisites: Math 135, Management Science 264 (or equivalents) and classified SBAE status. Basic probability and descriptive statistics; sampling techniques; estimation and hypothesis testing; simple and multiple regression, correlation analysis; computer packages and other optional topics.

514 Decision Models for Business and Economics (3)

Prerequisites: Management Science 513 and classified SBAE status. Linear programming; inventory; PERT-CPM; queueing; simulation, computer application, forecasting; time series, and other optional topics.

515 Management of Information in the Corporate Environment (3)

Prerequisite: Classified SBAE status. Review and application of management information systems in business. System planning, system design and analysis, use of files, decision support systems, expert systems, and implementation of management information systems.

526 Forecasting, Decision Analysis, and Experimental Design (3)

Prerequisites: Management Science 514 and classified SBAE status. Time Series Analysis. Trend, cyclical and seasonal components. Statistical decision theory. Fundamental principles of experimental design; interaction. Software packages.

550 Special Topics on Information Systems Design and Data Communication (3)

Prerequisites: Management Science 514 and classified SBAE standing. Information storage requirements; disk timing considerations; file organization and processing characteristics; data structures; modern data communication systems; computer networks.

555 Data Structures and Data Base Management (3)

Prerequisites: Management Science 550 and classified SBAE standing. File structures. Multiple-key retrieval file organizations; Data Description Language (DDL) and Data Manipulation Language (DML); Data independence; hierarchial, network and relational data bases. Students may not receive credit for both Management Science 408 and 555.

560 Advanced Deterministic Models (3)

Prerequisites: Management Science 514 and classified SBAE standing. Advanced linear programming, dynamic programming, integer programming, non-linear programming, business applications. Software packages and computer utilization.

561 Advanced Probabilistic Models (3)

Prerequisites: Management Science 514 and classified SBAE standing. Stochastic processes, Markov processes, advanced queueing and inventory models. Reliability. Software packages and computer utilization.

576 Business Modeling and Simulation (3) 100 not property seeds

Prerequisite: Management Science 513 or equivalent. Theory and application of modeling and simulation methodology. Probabilistic concepts in simulation; arrival pattern and service times; simulation languages and programming techniques; analysis of output; business applications.

580 Linear Programming (3)

Prerequisite: Management Science 514. Theory and applications of linear programming and extentions. Problem formulation and solution, simplex method, duality, sensitivity analyses, network, transportation and assignment models, and efficient computing techniques for specially structured problems.

585 Queueing and Stochastic Processes in Business and Economics (3)

Prerequisites: Management Science 513 and 514. Single and multichannel queueing systems of Markovian and general arrival and departure streams; birth-death processes, cost models and optimization of queues; Markov analyses; introduction to renewal theory; reliability.

590 Seminar in Management Science (3)

Prerequisites: Management Science 526 and 560 and classified SBAE status. Selected advanced topics and/or case studies in operations research, statistics, and/or management information systems, varying from semester to semester. May be repeated for credit with consent of instructor.

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597 Project (3)

Prerequisite: classified SBAE status. Directed independent inquiry. Not open to students on academic probation.

599 Independent Graduate Research (1-3)

Prerequisites: classified SBAE status and consent of department chair. May be repeated for credit. Not open to students on academic probation.

Department of Marketing



465 Managing Services Marketing (3) (Formerly 460)

Department Chair: Irene Lange Department Office: Langsdorf Hall 626

Programs Offered A Brown and and and a read O. M. read O. and

Bachelor of Arts in Business Administration

Concentration in Marketing

Master of Business Administration

Concentration in Marketing

Faculty

Robert Barath, Grady Bruce, Tom Buckles, Scott Greene, Katrin Harich, Paul Hugstad, Robert Jones, Irene Lange, Lance Leuthesser, John Ronchetto, Cliff Scott, James Taylor, Robert Zimmer

Advisers
The Business Advising Center, Langsdorf Hall 700, provides information on admissions, curriculum and graduation requirements, registration and grading procedures, residence and similar academic matters. In addition, the Marketing Department provides advising on curriculum content and career opportunities.

INTRODUCTION COMPANY TO THE PROPERTY OF THE PR

Marketing is a basic business function, covering a wide range of activities. It includes studying markets, planning products, pricing them, promoting them, selling them, and then delivering these products to customers. People in wholesaling, retailing, advertising agencies, research firms and transportation companies are all working in the marketing area. Any firm which is reviewing its product policies needs marketers to identify the market, choose the products, find where they can be sold and decide on a price for them.

Credential Information

For students interested in a teaching credential, the Department of Marketing offers courses which may be included in the Single Subject Waiver Program in Business.

Further information on the requirements for teaching credentials is found in the Teaching Programs section of the catalog and is also available from the Department of Secondary Education. Students interested in exploring careers in teaching at the elementary or secondary school levels should contact the Office of Admission to Teacher Education. Advanced guitedacid OSE

Prizes in Marketing

The Michael T. Ashton Memorial Scholarship for Outstanding Leadership

The Gordon S. Fyfe Memorial Award for Outstanding Academic Achievement

Outstanding Marketing Student Award

International Marketing Association Award

The Robert M. Olsen Scholarship Fund Award

BACHELOR OF ARTS IN BUSINESS ADMINISTRATION

See "Business Administration, Marketing Concentration."

MASTER OF BUSINESS ADMINISTRATION DEGREE

See "Business Administration, Marketing Concentration."

Marketing Courses

351 Principles of Marketing (3)

Prerequisite: Economics 202 or 210; corequisite: Management Science 361. Analyzes how managers of business enterprises can effectively market goods and services domestically and internationally to target customers. Covers marketing research, new product development, brand management, pricing, promotion, and distribution channels. The role of marketing is critically examined from the consumer, economics, legal, political and ethical/social responsibility perspectives.

353 Marketing Analysis (3)

Prerequisite: Management Science 361; corequisite: Marketing 351 with a grade of "C" or better. Examination of information sources and applications for the marketer. Emphasis on transforming data into business plans. Topics include use of computerized data bases, sales forecasting, interpretation of survey data and the creation of marketing presentations. Extensive computer applications. Instructional fee required.

370 Buyer Behavior (3)

Prerequisite: Marketing 351 and 353 with a grade of "C" or better. Consumer buying patterns, motivation and search behavior. The consumer decision-making process. Interdisciplinary concepts from economics, sociology, psychology, cultural anthropology and mass communications. Case analyses and research projects.

379 Marketing Research Methods (3)

Prerequisites: Marketing 351, 353 with a grade of "C" or better and Management Science 361. Marketing research process: problem formulation, identifying sources, selecting data collection, analysis techniques, preparing research reports. Selecting marketing problems for research. Instructional fee required.

401 Professional Selling (3) (Formerly 356)

Prerequisite: Marketing 351, 353, 370 and 379 with a grade of "C" or better. Salesmanship as an interpersonal influence process. Selling using principles of human behavior. Selling skills and techniques. Uses the Behavioral Lab.

405 Managing Advertising (3) (Formerly 454)

Prerequisite: Marketing 351, 353, 370 and 379 with a grade of "C" or better. Examines the management of the advertising function within the overall marketing task. Emphasis is given to managing distribution, managing the budget and managing creativity. Advertiser, advertising agency and media relationships are considered. International advertising is reviewed.

415 Managing the Sales Force (3) (Formerly 455)

Prerequisite: Marketing 351, 353, 370 and 379 with a grade of "C" or better. The sales manager's role in the organization; recruiting and selecting sales people; sales training; formulating compensation and expense plans; supervising and stimulating sales activities; morale; sales planning; evaluating sales people; and distribution cost analysis. Uses the Behavioral Lab.

425 Retail Marketing Strategy (3) (Formerly 456)

Prerequisite: Marketing 351, 353, 370 and 379 with a grade of "C" or better. Examines the retailer's role in the marketing system from a management perspective; developing integrated marketing and financial strategies; positioning the retail offer to convey meaning to target customers; merchandise management and control; and addressing changing market conditions - domestic and international.

435 Business Marketing Management (3) (Formerly 469)

Prerequisites: Marketing 351, 353, 370 and 379 with a grade of "C" or better. Examines the decision making implications in the business and organizational market as they apply to market segmentation, marketing planning and overall strategy formulation. The substrategies of product, price, promotion and distribution are discussed. International implications are considered.

445 Multinational Marketing Strategies (3) (Formerly 458)

Prerequisites: Marketing Majors: Marketing 351, 353, 370 and 379 with a grade of "C" or better. International Business Majors: Marketing 351 with a grade of "C" or better, Economics 335 and Finance 370. Theories of international trade and role of marketing decisions across national boundaries and markets. Focuses on concepts and principles of marketing strategies in multinational organizations from market assessments, entry alternatives, positions of global interdependence, marketing problems and ethical implications. Integrative cases, individual and team efforts emphasized.

465 Managing Services Marketing (3) (Formerly 460)

Prerequisite: Marketing 351, 353, 370 and 379 with a grade of "C" or better. Explores the differences between marketing services and marketing products. Also examines organizational requirements of firms that market services in contrast with marketing products. Considers the implications of marketing services internationally.

475 Export Marketing Strategies (3) (Formerly 451)

Prerequisite: Marketing 351, 353, 370 and 379 with a grade of "C" or better. Increases the student's awareness of international trading trends, the importance of trade worldwide. Emphasis is on entrepreneurial aspects and organizational structure to appraise markets, evaluate alternative export strategies and understand planning process. Includes documentation, financial considerations, government regulations.

489 Developing Marketing Strategies (3) (Formerly 459)

Prerequisites: Marketing 351, 353, 370, 379 and one 400-level marketing course, all with "C" grade or better and senior standing. Focuses on analysis of a wide variety of business situations. Analysis is followed by the development of a variety of possible marketing strategies. Extensive international orientation. Relies heavily on case studies and group interaction.

495 Internship (1-3)

Prerequisites: six units of upper division marketing courses, including Marketing 351, major in marketing or international business, consent of department internship adviser, and at least junior standing, 2.5 GPA and one semester in residence at Cal State Fullerton. Planned and supervised work experience. May be repeated for credit up to a total of six units. Credit/No Credit only.

499 Independent Study (1-3)

Prerequisites: marketing concentration, senior standing and approval by the department chair. Open to undergraduate students desiring to pursue directed independent inquiry. May be repeated for credit. Not open to students on academic probation.

519 Marketing Management (3)

Prerequisites: Accounting 510, Economics 515, Manag Sci 513, 514, Management 516, 518 (may be taken concurrently) and classified SBAE status. Concepts, principles and techniques used in the administration of the marketing variables. The role of marketing within the context of society and the business firm, social responsibility of business and international marketing.

525 Seminar in Marketing Problems (3)

Prerequisites: Marketing 519 and classified SBAE status. Utilizes major marketing concepts: product development, market analysis, demand determination, pricing decisions, promotion activities, distribution channels and organizational requirements. Students develop analytical skills by working with marketing and business problems from domestic and global perspectives. Lecture and case method.

555 Marketing Strategy and Planning (3)

Prerequisite: Classified SBAE status. Analysis of business situations and development of marketing strategy to gain competitive advantage. Uses strategy development tools such as experience curves, PLC, BCG grid, GE business policy directional matrix among others. Extensive use of case analysis and decision making.

596 Contemporary Topics in Marketing (3)

Prerequisites: Marketing 519 or equivalent; classified SBAE status. Topics in areas such as marketing of services, public policy and consumer issues and strategic planning. May be repeated for credit.

597 Project (3)

Prerequisite: classified SBAE status. Directed independent inquiry. Not open to students on academic probation.

599 Independent Graduate Research (1-3)

Prerequisites: classified SBAE status, consent of instructor and approval by department chair. May be repeated for credit. Not open to students on academic probation.

525 Seminar in Marketing Problems (3)
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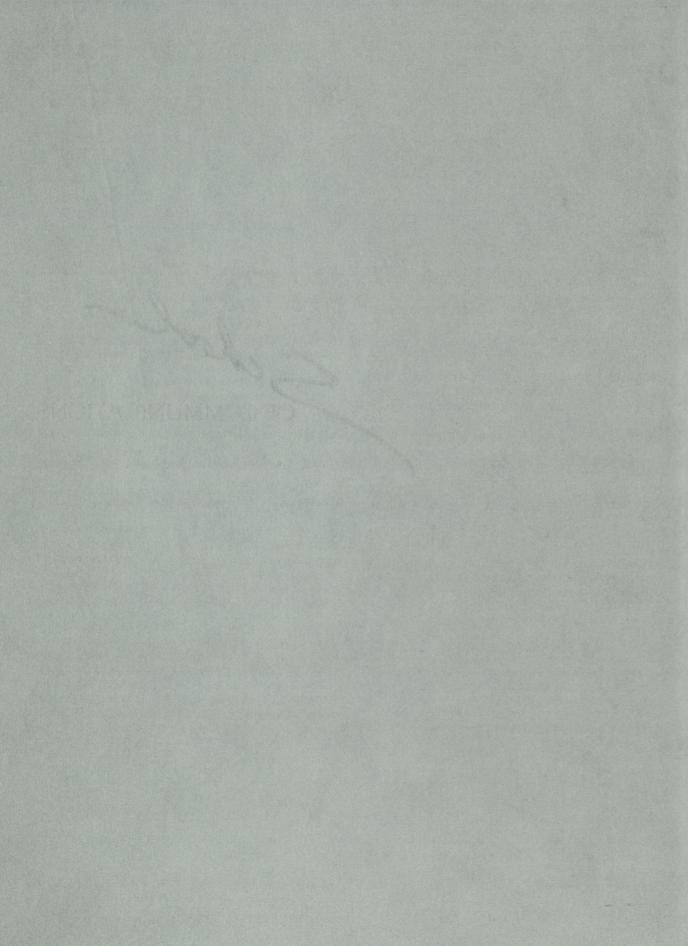
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Managing Services Marketing (3) (Formerly 460).

Prescriptories Marketing 351, 353, 370 and 379 with a grade of C or broad. Explaines the differences between marketing services and suscepting products. Also examines organizational representations of firms that roated services in contrast with marketing products. Considers the implications of marketing services overnationally.

Sof COMMUNICATIONS



School of communications



Dean: David Sachsman Associate Dean: Robert Emry

Programs offered

Bachelor of Arts In Communications

Concentrations in: Advertising

Iournalism

Photocommunications

Public Relations

Radio-Television-Film

Bachelor of Arts in Communicative Disorders

Bachelor of Arts in Speech Communication

Master of Arts in Communications

Concentrations in: Advertising

Lindercaduate students way amillarino Journalism of the total and the total Public Relations

Radio-Television-Film

Master of Arts in Communicative Disorders

Clinical Rehabilitative Services Credential (CRSC) with Special Class Authorization (SCA)

Master of Arts in Speech Communication

Minor in Speech Communication

Waiver Program for the Single Subject Credential

The School of Communications is committed to advancing a democratic society by preparing students to function in a wide variety of communication professions. With a strong tradition in the liberal arts and social sciences, the academic programs of the School share a common theoretical base which identifies the elements of human communication and the principles governing their use in all communicative processes essential to contemporary society, namely, the spoken and written word and visual images. Specialized programs in advertising, communication theory and process, intercultural, interpersonal, organizational communication, communication studies, communicative disorders. news-editorial, photocommunications, public relations, and radio-television-film make up the basic curricula of the School. These programs of study lead to traditional academic degrees for undergraduates and graduates, to state credentials and licenses, to professional certification, and to entry into graduate and professional degree programs.

Academic programs in the School of Communications prepare students to function as communication professionals in the fields of business, education, government, and the health-related professions. Undergraduate and graduate degrees are offered in Communications, Communicative Disorders, and Speech Communication. Ancillary education experiences are available through the campus daily newspaper, television facilities, forensics program (debate), speech and hearing clinic, and internships in professional settings.

The School also serves as a locus for the surrounding professional community in which leaders in the communication professions provide and receive advice and counsel on matters related to public interest, curricular development, career interests, and opportunities for service to the greater good of the community as a whole.

The School is dedicated to the principles of academic excellence and sees its fundamental mission as preparing citizens to function as effective communicators who practice their disciplines in accordance with the highest ethical codes of professional and personal conduct.

Advisement

Undergraduate students may call their department office for the name of their adviser, who will assist in developing a program of study. University policy requires students to see an adviser each of their first two semesters and every year thereafter. Three critical times for advising are before registering for the first semester, when selecting electives for the study plan, and two semesters before graduation for a graduation check.

Graduate students should make contact with their department graduate adviser to arrange for advisement prior to entry into the master's degree programs.

Student Organizations

The School of Communications supports a large number of student organizations and activities which provide a wide variety of pre-professional opportunities for academic advancement. They include: the Advertising Club: National Student SpeechLanguage-Hearing Association; Association of Speech Communication Students; Broadcast Production Association; Communications Week; Daily Titan; Debate (forensics); International Association of Business Communicators; Latino Communications Society; National Press Photographers Association; Photography Club; Public Relations Student Society of America; Society of Professional Journalists; and Women in Communication, Inc.

Accreditation

The Department of Communications is accredited by the Accrediting Council on Education in Journalism and Mass Communications. The Communicative Disorders program in the Department of Speech Communication is accredited by the American Speech-Language-Hearing Association.

Internships

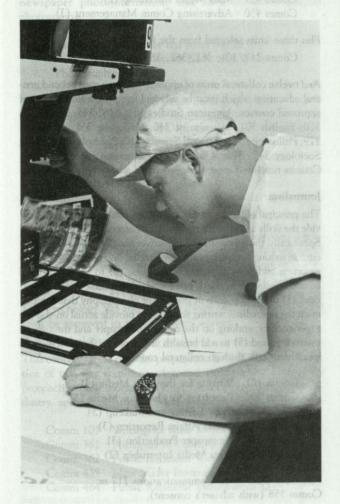
A wide variety of student internships are available throughout Southern California. In the Department of Communications, students are required to complete an internship, unless specifically waived from doing so, normally as the culminating undergraduate experience. The Speech Communications internship is normally taken sometime in the junior or senior year.

Scholarships and Awards

Some \$30,000 in scholarships and awards is presented annually to students in the School of Communications. Among the sponsors of scholarships are the Advertising Club of Orange County, the Business/Professional Advertising Association of Orange County, the Hearst Foundation, the Orange County chapter of the Public Relations Society of America. Awards annually are presented to students who excel in academic and pre-professional activities in the two departments.

Facilities

The School of Communications is equipped with modern laboratory facilities including a sophisticated speech and hearing clinic; large and comprehensive photography darkroom and studio facility; two 20-station computerized writing laboratories; a MacIntosh-based graphics laboratory; a television studio, control room, and video editing bays; a film editing laboratory; and a daily newspaper newsroom and production area.



Department of Communications

Department Chair: Terry Hynes

Vice Chair: Rick Pullen

Department Office: Humanities 230 Daily Titan Newsroom: Humanities 213

Daily Titan Business Manager: Humanities 225A

Programs Offered

Bachelor of Arts in Communications

Concentrations: Advertising

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Photocommunications Than O Poorstor Public Relations

Radio-Television Film

Master of Arts in Communications

Concentrations:

Advertising Iournalism

Public Relations Radio-Television Film

Faculty

James Alexander, Jav Berman, Carl Burrowes, Fenton Calhoun, Wendell Crow, J. Nickolas DeBonis, David DeVries, Ronald Dyas, Tony Fellow, Edward Fink, Joanne Gula, Terry Hynes, Carolyn Johnson, Paul Lester, Sirish Mani, George Manross, George Mastroianni, Norman Nager, Patrick O'Donnell, Coral Ohl, Wayne Overbeck, Robert Pickard, David Pincus, Rick Pullen, Robert Rayfield, Tony Rimmer, Marvin Rosen, Ted Smythe, Don Sunoo, Edgar Trotter, Larry Ward, Fred Zandpour

Advisers and leaves that month intended to 804 minor

Undergraduate: All faculty serve as undergraduate advisers. Students may find their assigned adviser posted on the bulletin board outside Humanities 230.

Graduate: Tony Rimmer

INTRODUCTION

Effective ethical communications are essential for the well-being of a democratic society. Thus, there is a need for persons trained in the theory and practice of informing, instructing, and persuading through communications media. The educational objectives of the programs leading to the Bachelor of Arts in Communications are: (1) to ensure that all majors receive a broad liberal education; (2) to provide majors with a clear understanding of the role of communications media in society; and (3) to prepare majors desiring communications-related careers in the mass media, business, government and education by educating them indepth in one of the specialized sequences within the department.

BACHELOR OF ARTS IN COMMUNICATIONS

A communications major is required to take 11 units of core requirements in addition to 23 units in a chosen concentration. The department offers five concentrations: advertising, journalism, photocommunications, public relations, and radio-television-film. Students may substitute a broadcast journalism program shared between the journalism and radio-television-film concentrations. The major totals 34 units.

Collateral requirements: Twelve units of upper-division course work in other departments approved by the adviser are also required. Collateral courses for each concentration are recommended by the concentration coordinator.

Every major must take a minimum of 90 units outside communications out of the 124 units required for graduation. Of this 90 units, 65 must be in the traditional liberal arts, humanities & sciences. Consult your department adviser and the School of Communications Advisement Center early in your course work to be sure you meet these requirements.

Communications Core

The communications core provides background and perspective appropriate to all the departmental concentrations and an understanding of the role of communicators and their contribution to the development of high standards of professionalism.

Eight units of required course work:

Comm 233 Mass Comm in Modern Society (2)

Comm 407 Communications Law (3)

Comm 425 History and Philosophy of American

Mass Communication (3)

Plus three units selected from the following: 19 , 200 19 brand

Comm 410 Principles of Comm Research (3)

Comm 426 World Communication Systems (3)

Comm 427 Current Issues in Mass Comm (3)

Comm 428 Communications and Social Change (3)

Comm 431 Mass Communications in Communist dents may find their assigned adviser posted of (3) obstract

Comm 480 Persuasive Communications (3) multiplications

Communications Concentrations

Every communications major must select and complete 23 units of course work in a major concentration.

Advertising and perceive of informing, memoraling growth and in

The objective of the advertising concentration is to prepare students for entry level positions in one or more of the four basic advertising activities: creative (copy, layout design), media, research, and management. Students are provided with knowledge and skills needed for work with an advertiser, advertising agency, the print and broadcast media, or support service industry.

Comm 101 Writing for the Mass Media (3)

Comm 350 Principles of Advertising (3)

Comm 352 Advertising Media (3)

Comm 353 Advertising Copy and Layout (3)

Comm 358 Graphics Communications (3)

Comm 439 Mass Media Internship (2)

Comm 450 Advertising Comm Management (3)

Plus three units selected from the following:

Comm 217, 301, 361, 362, 381, 410, 451

And twelve collateral units of upper-division courses beyond general education which must be selected from the following list of approved courses: American Studies 301, 318, 345; Economics 310; English 301; Managment 340; Marketing 351, 401, 370, 379; Philosophy 312; Political Science 310; Psychology 351, 361; Sociology 345, 372, 436; Speech Communication 320, 333. Courses not listed must be approved in advance by an adviser.

Journalism

The principal objective of the journalism concentration is to provide the skills and practice necessary for careers in the print media. Specifically, the concentration objectives are: (1) to provide experience in writing various types of news stories, and to develop skills in reporting and news gathering techniques; (2) to develop critical acumen necessary to check news stories for accuracy and correctness; (3) to develop skills in graphics or photography that complement the journalistic writing skills; (4) to provide actual on-the-job experience by working on the campus newspaper and through an internship, and (5) to add breadth and depth to the professional's specialized skills through collateral courses.

Comm 101 Writing for the Mass Media (3)

Comm 201 Reporting for the Mass Media (3)

Comm 332 Copy Editing and Makeup (3)

Comm 335 Public Affairs Reporting (3)

Comm 338 Newspaper Production (3)

Mass Media Internship (2) Comm 439

Plus three units from: Communications 217 or Comm 358 (with adviser's consent).

And three units from: Communications 334, 430, 435, 436.

Students who want to pursue broadcast journalism may substitute the above concentration requirements with the following courses: Communications 101, 302, 335, 371, 372, 382, 390, and 439.

And twelve collateral units of upper-division courses in four different departments which must be selected from the following list of approved courses: Economics 330, 335, 350, 361; English 300, 303, 305, 462, 463, 464; History 475, 476, 484, 485B; Political Science 300, 310, 315, 340, 350, 375, 440, 443, 451, 457, 461, 473; Sociology 301, 341, 345, 348; Philosophy 300, 301, 304, 345. Courses not listed must be approved in advance by adviser. Students may substitute a University-approved minor with adviser's consent.

Photocommunications Photocommunications

The photocommunications concentration provides a comprehensive study of the aesthetics, theories, and practices of contemporary photography for professional careers in magazine and newspaper photojournalism, and advertising/commercial photography.

Comm 101 Writing for the Mass Media (3) Comm 217 Introduction to Black and White

Photography (3)

Comm 319 Photojournalism (3)

Comm 321 Advanced Color Photography (3)

Comm 439 Mass Media Internship (2)

Plus six units selected from the following:

Comm 311, 326, 338, 340, 358, 409, 460.

Plus one of the following classes:

Comm 301, 334, 362.

And twelve collateral units of upper-division courses beyond general education which must be selected from the following list of approved courses: American Studies 333; Anthropology 306; Philosophy 311; Political Science 300; Biology 411; Chemistry 301 A,B; Physics 411; Art 312 and 470; Finance 310; Poli Sci 310; Psychology 303 and 351; Sociology 345. Courses not listed must be approved in advance by an adviser.

Public Relations

This concentration provides preparation in both theory and practice of two-way communication and management counsel for prospective professional public relations careers in business, industry, agency, government, and nonprofit sectors of society.

Writing for Mass Media (3) Comm 101

Comm 361 Principles of Public Relations (3)

Comm 362 Public Relations Writing (3)

Comm 439 Mass Media Internship (2)

Comm 464 Public Relations Management (3)

Plus one writing course from among the following:

Comm 301, 334, or 338

Plus six units selected from the following:

Comm 217, 350, 358, 363, 410, 467, 497

And twelve collateral units of upper division courses beyond general education which must be selected from the following: Art 323A; Economics 310, 320, 410; Finance 320, 340; Management 339, 340, 343; Marketing 351; Management Science 422; English 301, 360; Geography 370; Health Education 407; Political Science 309, 413, 415; Psychology 351, 391, 453, 472; Sociology 341, 345, 348, 473; Speech Communication 300, 320, 324, 333, 334, 420, 425. Courses not listed must be approved in advance by an adviser.

Radio-Television-Film

Courses in this concentration are designed for an understanding of the history, theory and practice of radio-television and film. Students are prepared for entry level positions in business, education, and the broadcasting, cable and film industries.

Writing for Broadcasting and Film (3) Comm 301

Comm 382 Broadcasting in America (3)

Comm 390 Introduction to Video Production (3)

Comm 402 Advanced Writing for Radio, TV and Film (3)

Comm 439 Mass Media Internship (2)

Plus nine units selected from the following:

Comm 290A, 290B, 311, 345, 375, 378, 411, 478, 479, 484 or 488

And twelve collateral units of upper-division courses beyond general education which must be selected from the following list of approved courses: Economics 320, 340, 350; English 322, 463, 465; History 476, 485; Management 339, 340, 343, 441; Marketing 351, 401; Political Science 315, 410, 414; Psychology 350, 351, 391; Sociology 348, 371, 436; Speech Communication 320, 324, 325, 333; Theatre 364. Courses not listed must be approved in advance by an adviser.

Students who want to pursue broadcast journalism may substitute the above concentration requirements with the following courses: Communications 101, 302, 335, 371, 372, 382, 390 and 439 as well as the collateral course requirements listed under the journalism concentration.

Writing Requirements

A communications major must satisfy both departmental and university writing requirements. English Usage Test (EUT): The EUT is a prerequisite to Communications department writing courses. It is administered free in January, April, August and October. Students are allowed three attempts to earn a passing score, but all attempts must be completed within one year of the initial attempt. The test should be taken prior to declaring a major in communications or immediately following enrollment in communications classes. Only students who have earned a baccalaureate degree or who have equivalent EPT, SAT or ACT scores are exempt from the EUT requirement.

University Writing Requirement: The course work portion of the university's upper-division baccalaureate writing requirement for communications majors may be met by satisfactory completion of any one of Communications 301, 334, 335, 338, 353, 362, 371, and 402.

MASTER OF ARTS IN COMMUNICATIONS

The degree is designed to provide advanced study in communications theory and research plus some concentration in one of the department's sequences: advertising, journalism, public relations, or radio-television-film.

The program prepares the graduate to apply advanced communications concepts, research and development skills, and theories relevant to the use of communications media for a wide variety of purposes. Such study may serve those whose careers involve the use of print, broadcast and film media of communications to inform, instruct and persuade. Communications skills are highly applicable to a wide range of careers in business, industry, government, education and the mass media.

Students completing the Master of Arts in Communications are eligible for journalism teaching positions in community colleges.

Admission to Graduate Standing: Conditionally Classified

Normally, an applicant must meet grade-point average requirements of 3.0 in the undergraduate major and 2.75 in the last 60 semester units of undergraduate course work, meet the university requirements, and satisfactorily complete the Graduate Record Examination General Test prior to admission. Students must also submit three letters of recommendation and an essay (approximately 1000 words) outlining reasons for pursuing the master's degree. Consult department for details regarding additional admission requirements.

Graduate Standing: Classified

A student admitted in conditionally classified standing may be granted classified standing upon the development of an approved study plan and satisfactory completion of prerequisite course work. Satisfactory coursework or its equivalent in the following may be taken concurrently with degree requirements if not completed prior to classification:

- (a) communications writing (Comm 201, 301, 353, or 362)
 - (b) an introductory course in the area of specialization (Comm 332, 350, 361 or 382)
 - (c) Comm 410 Principles of Communication
 Research

Study Plane, TT3 male very equivalent EPT, and study Plane

The student is required to complete 30 units of approved studies with a minimum grade-point average of 3.0 including 15 units in 500-level communications courses. Six of the 15 units of 500-level courses will be in thesis or project. The remaining units will be comprised of upper division or 500-level courses appropriate to the communications sequence.

The candidate shall develop a program of study in consultation with a sequence adviser and the graduate adviser of the Department of Communications. The candidate shall plan the thesis or project topic with a committee. The committee will include at least two faculty members from the Department of Communications.

Study plan requirements include the following:

Core Courses (6 units)

Comm 500 Theory and Literature of
Communications
Comm 508 Humanistic Research in
Communications
or Comm 509 Social Science Research in
Communications

Sequence-Related Courses (18 units)

Comm 515 Professional Problems in Related Fields or approved 500-level alternate

Comm 520A, B or C Communications Practicum or approved alternate

Consult the Communications Department Master's Program bulletin for additional sequence requirements.

Electives (0-6 units)

Project/Thesis/Exam (0-6 units)

Comm 597 Project (3)
or Comm 598 Thesis (6)
or Comprehensive Exam

For further information and advisement, please consult the graduate program adviser.

Communications Courses

101 Writing for the Mass Media (3)

Prerequisite: Communications Department English Usage Test; typing ability. Principles and practices of writing for major types of mass communications media. Content, organization, conciseness and clarity. (CAN JOUR 2)

201 Reporting for the Mass Media (3)

Prerequisites: Communications Department English Usage Test, Communications 101 or equivalent; typing ability. Development of expertise in the use of news reporting techniques combined with development of ability to compose complex journalistic writing forms for possible publication.

217 Introduction to Black and White Photography (3)

Cameras, accessories, materials, exposure, processing, printing, finishing, composition, filters, flash, studio techniques, and special subject treatments and applications. (2 hours lecture, 2 hours activity)

233 Mass Communication in Modern Society (2)

Newspapers, magazines, films, radio and television; their significance as social instruments and economic entities in modern society. (CAN IOUR 4)

290A,B History and Aesthetics of the Motion Picture (3,3)

The study of motion picture as a global influence in mass communications and entertainment. Examination of film movements, the rise and fall of the studio system, and social influences. A -Origins to 1945; B — 1945 to present. Film screenings on and off campus. (2 hours lecture; 3 hours activity)

301 Writing for Broadcasting and Film (3)

Prerequisite: Communications Department English Usage Test; typing ability. Theory and principles of writing in the broadcast and film media.

302 Writing Broadcast News (3)

Prerequisites: Communications Department English Usage Test, Comm 101 or equivalent; typing ability. Intensive journalistic writing and reporting for radio and television. Emphasis on writing assignments for both audio and video tape. Lecture/discussion of issues and responsibilities facing broadcast journalists.

311 Introduction to Motion Picture Production (3)

Theory and practice of motion picture photography and film production. (2 hours lecture, 3 hours laboratory)

319 Photojournalism (3)

Prerequisite: Comm 217 or equivalent. Photography for publication in print media. News, advertising, feature, sports, lifestyle, photo essay and documentary applications. (2 hours lecture, 3 hours laboratory) notice Production (violated Modern Treequisites Comm 301, 371 of construction Transference Comm

321 Advanced Color Photography (3)

Prerequisites: Junior standing and Comm 319 or consent of instructor. Positive and negative color film processing sensitometry, and color printing. Creative and effective use of color in publications photography. (2 hours lecture, 3 hours laboratory)

326 Communications Photography (3)
Prerequisites: Junior standing and Comm 321, or consent of instructor. Photographs and photographic communications produced with the large format camera for the mass media, business, education, government, industry and science. (2 hours lecture, 3 hours laboratory) of the supported dad senting neutrolining

332 Copy Editing and Makeup (3)

Prerequisites: Communications Department English Usage Test and Comm 201 or equivalent. Principles and practice of newspaper editing: copy improvement, headline writing, news photos and cutlines, wire services, typography, copy schedules and control, page design and layout, law and ethics. (2 hours lecture, 3 hours laboratory)

334 Feature Article Writing (3)

Prerequisites: Communications Department English Usage Test and Comm 101 or equivalent. Nonfiction writing for newspapers and magazines; sources, methods and markets.

335 Public Affairs Reporting (3)

Prerequisites: Communications Department English Usage Test, Comm 101 and 201, or consent of instructor; and junior standing. Comm 407 recommended. Reporting public interest news such as courts, education, finance, government, police and urban problems.

338 Newspaper Production (3)

Prerequisites: Communications Department English Usage Test, Comm 201 or equivalent or consent of instructor. Members of the class constitute the editorial staff of the university newspaper. Meets four hours per week for critiques in news reporting, writing, editing and makeup, followed by production. May be repeated for a maximum of six units of credit. (More than 9 hours laboratory)

340 Photography in Advertising and Public Relations (3)

Prerequisites: junior standing and Comm 326 or consent of instructor. Advertising and public relations photography. Materials and techniques for producing photographs with visual impact suitable for photo reproduction. Students will prepare a portfolio of photographs. (2 hours lecture, 3 hours activity)

345 The Language of Film and Television (3)

Prerequisite: Comm 233 or consent of instructor. Critical and theoretical analysis of film and television as communication. Examines the manner in which an organized sequence of images and sounds communicates meaning using literature in semiology and visual communications.

350 Principles of Advertising (3)

Advertising in America. The language and art of advertising and its role in marketing. South Anamason, seenisud at mulban

352 Advertising Media (3)

Prerequisites: Comm 350 and junior standing. Planning, execution and control of advertising media programs. Basic data and characteristics of the media. Buying and selling process, techniques, and methods in media planning process. Audience measurement and media analysis.

353 Advertising Copy and Layout (3)

Prerequisites: Communications Department English Usage Test and Comm 101, 350 or consent of instructor; and junior standing. Writing of copy and layout of advertisements, based on study of sales appeals, attention factors and illustrations. (2 hours lecture, 2 hours activity)

358 Graphics Communications (3)

Prerequisite: junior standing. Printing processes, publication formats, copy preparation, copy-fitting techniques, layout principles, paper selection and distribution methods. (2 hours lecture, 2 hours activity)

361 Principles of Public Relations (3)

Prerequisite: junior standing. The social, behavioral, psychological, ethical, economic and political foundations of public relations, and the theories of public relations as a communications discipline.

362 Public Relations Writing (3)

Prerequisites: Communications Department English Usage Test; Comm 101 or consent of instructor; typing ability; junior standing. Communications analysis, writing for business, industry and nonprofit organizations. Creating effective forms of public relations communication. (2 hours lecture, 2 hours activity)

363 Publications Editing (3)

Prerequisites: Comm 361 and six units of communications writing or consent of instructor; and, junior standing. Editing functions and techniques involved in creative development of publications for business, industry and nonprofit organizations and institutions. Magazines, newspapers, newsletters and brochures.

371 Radio-Television News and Public Affairs (3)

Prerequisites: Communications Department English Usage Test, Comm 101, 302, 382 and 390; typing ability required. Covering news events and public affairs for radio and television. (2 hours lecture, 3 hours lab)

372 Advanced TV News Production (3)

Prerequisite: Comm 371 or consent of instructor. Writing, production and evaluation of television newscasts for local cable TV distribution. Lecture-discussion sessions on advanced reporting techniques and special problems in broadcast journalism. (2 hours lecture, 3 hours laboratory)

375 The Documentary Film (3)

Purpose, development, current trends, critical analysis and production requirements of the documentary film. Future of the medium in business, government, education, and television.

378 Introduction to Audio Production (3)

Prerequisite: Communications majors only. Audio production as it pertains to radio broadcasting, commercial production, and recording, television and film audio. (2 hours lecture, 3 hours laboratory) A granding process A (vrotational laboratory)

381 Broadcast Copywriting (3)

Prerequisite: Comm 350 and junior standing. Writing of advertising copy for radio and television, based upon study of unique media and audience characteristics, costs and coverages. (2 hours lecture, 3 hours laboratory)

382 Broadcasting in America (3)

Prerequisite: Communications major or consent of instructor. The foundation course of the telecommunications sequence. Radio and television from a professional perspective. Economic, historical, regulatory aspects and the social effects of these media, numbers from the Department of Courton person amond S

390 Introduction to Video Production (3)

Production of programs for broadcast stations and other video materials for cable, business, industrial, and instructional applications. (2 hours lecture, 3 hours laboratory)

402 Advanced Writing for Radio, Television and Film (3)

Prerequisites: Communications Department English Usage Test (EUT), Comm 301, and junior standing. An advanced writing class concentrating on the long form of broadcast and film writing, including documentaries, features, special news, commentaries, and analysis. Mild superior CPRI - 8 2-PRI or emignO

407 Communications Law (3)

Prerequisites: Comm 233 and junior standing. The Anglo-American concept of freedom of speech and press; statutes and administrative regulations affecting freedom of information and publishing, advertising, and telecommunication. Libel and slander, rights in news and advertising, contempt, copyright, and invasion of privacy.

409 Advanced Photojournalism (3)

Prerequisites: Comm 321 and junior standing or instructor's consent. Advanced press photography. Extensive use of cameras for photographic reporting; evaluation and preparation of pictures for publication. Field/laboratory experience in black and white and color. (2 hours lecture, 3 hours laboratory)

410 Principles of Communication Research (3)

Prerequisites: Comm 233 and junior standing. Research methods used to assess the effects of print, broadcast, and film communications on audience attitudes, opinions, knowledge, and behavior. Research design and data analysis in communications retion in print media. News, advertising, feature, sports, I. deserts.

411 Advanced Motion Picture Production (3) 10181006 211000

Prerequisites: Comm 301, 371, or consent of instructor. Theory, procedures and practice in film production: motion picture (silent and sound), scriptwriting, transfer and mixes, production, distribution and financing. (2 hours lecture, 3 hours lab)

425 History and Philosophy of American Mass Communication (3)

Prerequisites: Comm 233 and junior standing. American mass communication; newspapers and periodicals through radio and television; ideological, political, social and economic aspects.

426 World Communication Systems (3)

Prerequisites: Comm 233 and junior standing. Major mass communication systems, both democratic and totalitarian, and the means by which news and propaganda are conveyed internation-

427 Current Issues in Mass Communication (3)

Prerequisites: Comm 233, 407 and 425 and junior standing. Exploration of current issues which cross department sequences. Controversial and changing concepts of the function and role of the mass media.

428 Communications and Social Change (3)

Prerequisites: Comm 233 and junior standing. How innovations ideas, products, and practices perceived as new — are communicated to members of a social system. The roles of adopters, opinion leaders, change agents and communications in the diffusion of innovations and consequent changes in social systems.

430 Newspaper Management (3)

Prerequisite: Consent of instructor and junior standing. Organization, operation and administration of a newspaper's departmental activities: advertising, business, circulation, mechanical, news-editorial and promotion. (3 hours lecture, field trips, detailed study of one selected newspaper department)

431 Mass Communications in Communist Systems (3)

Prerequisite: Junior standing. Mass media in Communist societies; the U.S.S.R., the People's Republic of China, Poland and Yugoslavia. The mass media, people and party.

435 Editorial and Critical Writing (3)

Prerequisites: Communications Department English Usage Test, upper division writing course and junior standing. Editorial and critical writer and opinion columnist roles. Techniques of editorial writing and aspects of critical thinking. (2 hours lecture; 2 hours lab and fieldwork)

436 Investigative and Specialized Reporting (3)

Prerequisites: Communications Department English Usage Test, Comm 332, 335 and 407; and junior standing. Investigative and interpretive reporting of complex or specialized subjects.

439 Mass Media Internship (2)

Prerequisites: Senior standing, communications major and consent of instructor. Supervised internship, according to sequence, with newspaper, magazine, radio or television station, press association, public relations firm or advertising agency. Application must be made through department coordinator one semester prior to entering program. (Credit/No Credit only)

450 Advertising Communications Management (3)

Prerequisites: Comm 350 and 352 and junior standing. Theory and techniques for planning, directing and evaluating advertising programs with emphasis on media-message strategies. Managerial approach with case studies to the solution of advertising communications problems.

451 National Advertising Campaigns (3)

Prerequisites: Comm 350, 352 and 353 and junior standing. Advertising campaigns and utilization of mass media, such as television, newspapers and magazines, in national advertising programs. Design of complete campaigns from idea to production readiness.

460 Advanced Studies in Professional Photography (3)

Prerequisites: Comm 326 and junior standing or instructor's consent. Analysis and execution of contemporary photographic concepts. Students will refine aesthetics and techniques culminating in a portfolio for professional entry into photojournalism or commercial media photography. (2 hours lecture, 3 hours laboratory)

464 Public Relations Management (3)

Prerequisites: Comm 361 and 362 and junior standing. Analysis of systems and strategies for planning public relations campaigns and solving/preventing problems. Individual, team case studies, in corporate development of proposals; actual use of tools in addition to role playing presentations to management.

467 Public Relations Agency Seminar (3)

Prerequisites: Comm 101, 361 and junior standing. Seminar focuses on psychology and functions of client counseling, proposal writing, new business development, agency management, servicing clients, evaluation of methods, reporting results, and legal and ethical concerns. And and to muraixon and on bounger ad

478 Management in the Broadcasting & Film Industries (3)

Prerequisite: advanced standing, Comm 382 or consent of instructor. The study of management of the broadcasting, cable-TV and film industries with attention to financial structures, programming and government regulation.

479 Advanced Video Production (3)

Prerequisite: Comm 390 or consent of instructor. Producing programs for broadcast and other applications for cable, business, industrial and instructional use. Emphasis on location shooting and post production including electronic editing. (2 hours lecture, 3 hours laboratory)

480 Persuasive Communications (3)

Prerequisites: Comm 233 and junior standing. Persuasive communications applied to mass communication. The communicator, audience, message content and structure, and social context in influencing attitudes, beliefs and opinions.

484 Documentary Production (3)

Prerequisites: B average in Comm 390 and 479 or 488 and consent of instructor. A lecture/laboratory course in which students write and produce radio, television and film documentaries. (2 hours lecture, 3 hours laboratory)

488 Production Workshop for Cable Television (3)

Prerequisites: B average in Comm 390 and 479 or consent of instructor. Students produce informational and sport programs for cable TV systems and radio stations. May be repeated once for credit; only three units may apply to major. (9 hours laboratory)

496 Student-to-Student Tutorial (1-3)

Prerequisites: consent of instructor and previous superior performance in a similar or equivalent course. Under faculty supervision, student provides tutorial assistance in a communications course. May involve small group demonstrations and discussions, individual tutoring and evaluation of student performance as appropriate. May be repeated to a maximum of four units either separately or in combination with Comm 499.

497 Seminar in Public Communications Practices (3)

Prerequisite: Comm 464, junior standing and consent of instructor. Operationalizing public relations management principles. Role of public relations in contemporary society. Ethics, social responsibilities and trends in the emerging profession.

499 Independent Study (1-3)

Prerequisite: Consent of department chair. Individually supervised mass media projects and research on campus and in the community. May involve newspaper and magazine publishers, radio and television stations and public relations agencies. May be repeated up to a maximum of four units either separately or in combination with Com. 496.

500 Theory and Literature of Communications (3)

Prerequisite: Conditional classified status. Theories and research on communication processes and effects; source, media, message, audience and content variables. Types, sources and uses of communication literature. Graduate seminar.

508 Humanistic Research in Communications (3)

Prerequisites: Comm 410, 500 or concurrent enrollment and classified status. Humanistic methods of study in communications: historical research and critical analysis applied to problems, issues and creative works in communication. Graduate seminar.

509 Social Science Research in Communications (3)

Prerequisites: Comm 410, 500 and classified status. Social-scientific research design and analysis and the study of communication processes and effects. Graduate seminar.

515 Professional Problems in Specialized Fields (3)

Prerequisite: Comm 500. Selected topics and issues in the field of mass communications. Subjects vary each semester. May be repeated for a maximum of six units.

517 Ethical Problems of the Mass Media (3)

Prerequisite: Comm 500. This course will study criticisms of specific functions of the mass media and public relations. The course will consist of three sections: the history of criticism; problem areas of the media; and practitioner response to criticism.

519 Communications and Governance in America (3)

Prerequisite: Comm 500 or consent of instructor. The course will study relationships between systems of communications, particularly new communication technologies, and governmental institutions and processes within the American setting. It will explore how technological change relates to patterns of decision-making, management, and the content and flow of information among public officials.

520A,B,C Communications Practicum (3,3,3)

Prerequisites: Comm 500 and six units of study-plan courses in area of specialization. Under supervision of a faculty member, students plan, design, conduct and evaluate a team project in their field of specialization: A - News-Editorial, B - Radio-Television-Film, C — Public Relations.

525 Advanced Communications Management (3)

Prerequisite: Comm 500. The course is designed to provide the student with an up-to-date assessment of general management and communications management techniques, and to help equip the student for management positions in advertising, journalism, public relations and broadcasting.

550 Advertising in Modern Society (3)

Prerequisite: Comm 500. Assessing the impact of advertising on society, the culture and economy. Philosophical rther than technical examinations of critical issues and problems such as economic and social effects of advertising, effects of value and life styles, ethics and regulation.

597 Project (3)

Completion of creative project in a sequence beyond regularly offered course work.

598 Thesis (3 or 6)

Completion of a thesis in a sequence beyond regularly offered course work.

599 Independent Graduate Research (1-3)

Prerequisite: consent of department chair. Individually supervised mass media projects or research for graduate students. May be repeated.

Department of Speech Communication



Speech Convertis Viagnostic Methods in documents

Department Chair: Joyce Flocken Department Office: Education Classroom 199 Speech & Hearing Clinic: Education Classroom 190

Programs Offered

Bachelor of Arts in Communicative Disorders Master of Arts in Communicative Disorders

Clinical Rehabilitative Services Credential (CRSC) with Special Class Authorization (SCA)

Bachelor of Arts in Speech Communication Minor in Speech Communication Minor in Speech Communication

Master of Arts in Speech Communication Waiver Program for the Single Subject Credential

Faculty

Daniel Canary, K. Jeanine Congalton, Daniel Crary, Michael Davis, Robert Emry, George Enell, Joyce Flocken, Robert Gass, Kaye Good, William Gudykunst, Ruth Guzley, Mary Blake Huer, Lucy Keele, Kurt Kitselman, Edith Li, Emmett Long, Norman Page, John Reinard, Glyndon Riley, Terry Saenz, Stella Ting-Toomey, Arden Thorum, A. Lynn Williams, Richard Wiseman, Toya Wyatt.

Advisers

Undergraduate: Norman Page Graduate: Edith Li

INTRODUCTION

Majors in the Department of Speech Communication study human communication as part of a liberal arts and social sciences education, and in preparation for a variety of career choices. Students with communication background studies and training are: prepared to understand the roles communication plays in human interaction; skilled in facilitating and analyzing individual, small group, and public communication processes; experienced in planning and managing programs that improve the quality of communication; sensitized to cultural and pathological differences that influence communication effectiveness; and equipped to apply scientific methods and technical procedures to the study of communication improvement and competencies.

The Department of Speech Communication offers two undergraduate and two graduate degree programs in communicative disorders and in speech communication.

Instruction in Communicative Disorders has four specific goals: to discover relationships among human communication and other human behaviors; to provide students with an understanding of the communication process so they can evaluate normal and abnormal deviations; to provide theoretical understanding and functional skills which enable the clinician-in-training to diagnose and treat disorders of speech, voice, language and hearing; and to develop graduate professional practitioners of speech pathology capable of serving in clinics, community centers, hospitals, private practice and school settings.

Instruction in Speech Communication has four specific goals: to discover relationships among human communication and other human behaviors; to provide students with an understanding of the communication process enabling them to evaluate and affect their communication environments; to improve the quality of human communication; and to facilitate intellectual, social and political maturity by applying principles of communication. Students are prepared for careers as communication specialists in business, public relations, education and other professions requiring a high level of communication competencies such as the law and the ministry, and for doctoral level studies in speech communication.

PROFESSIONAL INFORMATION

Accreditation

The Communicative Disorders program is fully accredited by the American Speech-Language-Hearing Association (ASHA). Graduate study in this program leads to certification with ASHA.

Licensure has from the methods of study in

Graduate study in Communicative Disorders leads to licensure with the California State Board of Medical Quality Assurance.

Credential Information

As an addition to the degree in Communicative Disorders, the Speech Communication Department offers credential programs in Clinical Rehabilitative Services and in Clinical Rehabilitative Services with a Special Class Authorization seal approved by the Commission for Teacher Credentialing (CTC).

The Speech Communication Department offers course work leading to a waiver in the area of Language Arts for the Single Subject Credential Program (Secondary Education). Interested students should seek advisement from the department single subject waiver adviser. Set has abodiem offitteness viggs of beginness

Awards in the Department of Speech Communication

The following awards were established by family, friends and colleagues of the designees in memory of their commitment and contributions to students engaged in the study of human communication.

These awards provide recognition and/or financial assistance to outstanding students majoring in Speech Communication or Communicative Disorders.

The Seth A. Fessenden Award The Herbert W. Booth Award The Herbert W. Booth Outstanding Senior Award The Philip I. Schreiner Award The Lee E. Granell Award The Wayne Brockriede Award

Graduate Assistantships and Fellowships

The following appointments are awarded to outstanding graduate students in the form of competitively selected assistantships and lectureships:

Clinical Graduate Assistants Graduate Assistants in Forensics Graduate Assistants in Research Lecturers in Speech Communication

BACHELOR OF ARTS IN COMMUNICATIVE DISORDERS

Basic requirements: 42 units minimum

Lower Division Requirements (3 units)

Speech Comm 102 Public Speaking (3)

Upper Division Requirements (33 units)

Speech Comm 300 Introduction to Research in Speech Communication (3)

Speech Comm 324 Small Group

Communication (3)

or Speech Comm 332 Processes of Social Influence (3)

or Speech Comm 334 Persuasive Speaking (3)

Speech Comm 341 Introduction to Phonetics (3)

Speech Comm 342 Introduction to Communicative Disorders (3)

Speech Comm 343 The Neurology of Speech and Hearing (3)

Speech Comm 344 The Anatomy and Physiology of Speech and Hearing (3)

Speech Comm 441 Dysarticulation and Stuttering (3)

Speech Comm 444 Childhood Language Disorders and Adult Aphasia (3)

Speech Comm 451 Diagnostic Methods in Communicative Disorders (3)

Speech Comm 452 Therapeutic Procedures in Communicative Disorders (3)

Speech Comm 463 Audiology (3)

Electives: additional units from among the following courses (6 units)

Speech Comm 302 Introduction to Manual Communication (3)

Speech Comm 308 Quantitative Research Methods (3) Speech Comm 312 Intermediate Sign Language (3)

Speech Comm 345 Communication and Aging (3)

Speech Comm 402 Advanced Phonetics (3)

Speech Comm 403 Speech/Language Development (3)

Speech Comm 404 Communicative Disorders of the Bilingual/Bicultural Child (3)

Speech Comm 443 Voice Disorders & Cleft Palate (3)

Speech Comm 453 The Speech/Language and Hearing Clinician as a Counselor (3)

Speech Comm 464 Audiometry (3)

Speech Comm 465 Aural Rehabilitation (3)

BACHELOR OF ARTS IN SPEECH COMMUNICATION

Basic Requirements: 42 units minimum

Lower-Division Requirements (9 units)

Speech Comm 102 Public Speaking (3)

Speech Comm 200 Human Communication (3)

Speech Comm 235 Essentials of Argumentation and Debate (3)

Upper-Division Requirements (24 units)

Core Courses (9 units) Security and a majoral of security

Speech Comm 300 Introduction to Research in Speech Communication (3)

Speech Comm 308 Quantitative Research Methods (3) Speech Comm 420 Communication Theory (3)

Concentration Courses (15 units of adviser approved coursework reflecting a thematic focus in advocacy, interpersonal communication, intercultural communication, organizational communication, or rhetoric taken from among the following courses)

Speech Comm 138 Forensics (2)

Speech Comm 220 Interpersonal Conflict

Management (3)

Speech Comm 254 Nonverbal Communication (3)

Speech Comm 320 Intercultural Communication (3)

Speech Comm 324 Small Group

Communication (3)

Interviewing: Principles and Speech Comm 325

Practices (3)

Speech Comm 332 Processes of Social

Influence (3)

Speech Comm 333 Communication in Business

and Industry (3)

Speech Comm 334 Persuasive Speaking (3)

Speech Comm 335 Advanced Argumentation (3)

Speech Comm 338 Intercollegiate Forensics (2)

Speech Comm 415 Interpersonal

Communication Theory (3)

Organizational Communication Speech Comm 425

Dynamics (3)

Speech Comm 430 Classical Rhetorical Theory (3)

Speech Comm 432 Contemporary Rhetorical

Theory (3)

Speech Comm 437 Internship: Speech

Communication (3)

Speech Comm 438 Principles of Rhetorical

Criticism (3)

Electives (9 units of adviser approved coursework in Speech Communication)

MINOR IN SPEECH COMMUNICATION

Basic Requirements: 21 units of adviser-approved courses in speech communication.

MASTER OF ARTS IN COMMUNICATIVE DISORDERS AND IN SPEECH COMMUNICATION

The Master of Arts in Communicative Disorders (speech-language pathology and audiology), accredited by the Education and Training Board of the American Boards of Examiners in Speech Pathology and Audiology since 1969, is designed: (1) to provide students with graduate, professional level studies covering the broad field of communicative disorders; (2) to provide students with opportunities to observe, learn and serve communicatively impaired clients within a wide range of clinical facilities, both on-campus and off-campus; and (3) to train students to assess, diagnose and prescribe therapy plans, and to function as therapists for selected types and populations of the communicatively impaired.

The Master of Arts in Speech Communication is designed for students who have exceptional interest in and aptitude for study in the area of communication theory and process. The objectives of the degree include the following: to improve the student's academic and professional competence, to prepare the student for advanced graduate work toward the doctoral degree, to develop the student's research capabilities, to contribute to improvement in teaching or clinical skills, and to increase the student's knowledge in the specializations appropriate to the particular profession. The student is expected to demonstrate a high degree of intellectual competence and scholarly discipline, to evaluate critically, and to demonstrate mastery of the field of concentra-

Admission to Graduate Standing: Conditionally Classified

Applicants must meet the university requirements for admission to conditionally classified graduate standing: a baccalaureate from an accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted.

Applicants for Communicative Disorders Program must have a baccalaureate in communicative disorders or the equivalent. The equivalent consists of a prescribed list of courses which total 30 semester units and which form an appropriate background for graduate studies. Applicants for Speech Communication are reguired to have a baccalaureate in speech communication or an allied field or complete nine units of approved background studies in speech communication.

In addition, the following factors will be taken into consideration by the Graduate Committee in determining who shall be admitted to the program: 151 to as program 9 85 mmo)

- Grade-point average.
- 2. Letters of recommendation (preferably on department forms).
- 3. Professional objectives as presented in a student letter of hasic Kequitements 21 units of achievaryoved .tinstni

Graduate Standing: Classified

A student who meets the requirements for conditionally classified graduate standing, as well as the following requirements, may be granted classified graduate standing upon the development of an approved study plan: "The state of the very plan approved study plan: "The state of the very plan approved study approved study approved study plan approved study approved s ligining Board of the American Boards of Examiners in

- 1. Enrollment in Speech Comm 500, Research in Speech Communication, is required within the first nine units of graduate work included on the study plan.
- 2. Completion of the study plan with 30 units of studies approved by an adviser and the Department Graduate or Committee, of or born sandy vormed educated born seometh

Study Plan

Requirements for the Master of Arts degree in either Communicative Disorders or Speech Communication consists of (1) a minimum of 30 units of study approved by the department Graduate Committee, (2) at least 15 units in one of the major areas, (3) successful completion of comprehensive examinations and a thesis (six units) or a directed graduate study research project (three units), and (4) may include up to six units of adviser-approved elective course work outside the department.

Students in the Communicative Disorders program must complete one course in research methods (Speech Comm 500), two courses in language (Speech Comm 542 and 543), two courses in speech disorders (Speech Comm 570, 571, 573 or 574), and one course in either developmental or childhood language disabilities (Speech Comm 575 or 577).

Conditionally Classified Students in the Speech Communication program must complete one course in theory (Speech Comm 536), one course in research methods (Speech Comm 500), and a minimum of three additional courses in 500-level seminars.

For further information, consult the Department of Speech Communication.

CLINICAL REHABILITATIVE SERVICES CREDENTIAL

The credential is awarded by the State Department of Education and requires the following coursework: (85 units minimum)

- I. B.A. degree in Communicative Disorders or equivalent preparation as approved by the department Graduate Committee. (See Core Requirements for the B.A. in Communicative Disorders: 36 units). Electives to be selected from the generic program (see III below).
 - II. Admission to the graduate program in communicative disorders.
 - III. Generic program and advanced specialization program in speech, language and hearing disorders will include but

Basic Requirements (21 units) and analogo I notely Classical

Speech Comm 403 Speech/Language Development (3)

Speech Comm 443 Voice Disorders and Cleft Palate (3)

Speech Comm 453 The Speech/Language and Hearing Clinician as a Counselor (3)

Speech Comm 464 Audiometry (3)

Speech Comm 465 Aural Rehabilitation (3)

Speech Comm 542 Neurophysiologic Bases of Speech and Language (3)

Speech Comm 577 Seminar in Communicative Disorders: Childhood Language Disorders (3)

Electives (6 units)

Speech Comm 571 Seminar in Communicative Disorders: Stuttering (3)

Speech Comm 573 Seminar in Communicative Disorders: Voice (3)

Speech Comm 574 Seminar in Communicative Disorders: Articulation (3)

Speech Comm 575 Seminar in Communicative Disorders: Developmental Disabilities (3)

Related Areas Requirements (9 units)

Special Ed 371 Exceptional Individual (3)

Psychology 361 Developmental Psychology (3)

Linguistics 402 Advanced Phonetics (3)

or Linguistics 406 Descriptive Linguistics (3)

Clinical Practicum and Public School Practicum (13 units)

Speech Comm 458 Basic Clinical Practice (3) Speech Comm 489A Public School Practicum in Communicative Disorders (4) at noise in manage TEE Speech Comm 490 Seminar: Speech and Hearing

Service in the Schools (2)

Speech Comm 558 Interm Clinical Practice (2)

Speech Comm 559A Adv Clinical Practice (2)

CLINICAL REHABILITATIVE SERVICES CREDENTIAL WITH SPECIAL CLASS **AUTHORIZATION**

This credential with special class authorization is awarded by the State Department of Education and requires the following:

- Completion of all requirements for the Clinical Rehabilitative Services Credential (see above 85 units).
- II. Completion of the following: (15 units)

Reading 480 The Teaching of Reading (4) Special Ed482A Exceptionality: Curriculum and Methods for the Learning Handicapped (3) Speech Comm 410 Perceptual and Cognitive

Problems of the Severe Language Handicapped Child (3) Speech Comm 489B Public School Practicum in the Special Class (4)

Speech Communication Courses

100 Introduction to Human Communication (3)

Process variables crucial to the outcome of communication transactions. Purposes and impact of communication, attitude formation, cognitive message elements and affective message elements. Participation in research projects.

344 The Anatomy and Physiology of Speech and

102 Public Speaking (3)

Theory and presentation of public speeches, including an analysis of determinants of comprehension and attitude formation; selection and organization of speech materials, development of delivery skills and evaluation of message effectiveness. Student presentations required. Participation in research projects. (CAN SPCH 4)

138 Forensics (2) (E) unigA bas dolarsharmon ?

Prerequisite: consent of instructor. Investigation and practice in the background, format procedures and evaluation criteria of the various forensic events. Students must participate in at least two intercollegiate speech tournaments. May be repeated for credit. (More than 6 hours of classwork for each unit of credit)

200 Human Communication (3)

Theories and competencies in interpersonal, small group, public, organizational and intercultural communication. Variations in communication process across contexts is investigated.

220 Interpersonal Conflict Management (3)

Examination of the nature, causes and structure of interpersonal conflict; communication strategies exhibited in conflict; and intervention principles for conflict management. Conflict management theory will be applied to conflicts within marriages, small groups, organizations and intercultural relationships.

235 Essentials of Argumentation and Debate (3)

Introduction to methods of critical inquiry and advocacy. Identifying fallacies in reasoning, testing evidence and evidence sources, advancing a reasoned position, and defending and refuting arguments. Analysis and evaluation of oral and written arguments. (CAN SPCH 6)

254 Nonverbal Communication (3)

(Same as Linguistics 254)

300 Introduction to Research in Speech Communication (3)

Prerequisite: Speech Comm 100 or 200, open only to speech communication majors. Understanding and using professional literature in speech communication and using that literature to generate a formal research paper. A passing grade fulfills the course requirement of the university upper division baccalaureate writing requirement for speech communication majors and communicative disorders majors.

302 Introduction to Manual Communication (3)

Prerequisite: consent of instructor. The basic principles of manual communication and sign language systems; fingerspelling and the development of basic sign language vocabulary in Pidgin Sign English (PSE).

303 Biology of Human Communication (3)

Prerequisites: Biology 101 or Psychology 101. The exploration of the biology and evolution of speech and language. Includes speech production, evolution and development; speech perception; language, hemispheric specialization, clinical studies; current methods in neurolinguistics; and plasticity and aging.

305 Liberal Studies in Communication Processes (3)

Introduction to interdisciplinary study and its relationships to communication theory. How communication occurs in various disciplines. Theories about the nature of language and how this influences the pursuit of learning. No credit for speech communication majors. (8) analogo animum 488

308 Quantitative Research Methods (3)

Prerequisite: Speech Comm 100 or 200. Current perspectives in empirical research methodology in the discipline of Speech Communication. Experimental designs, common statistical tests and the use of the computer as a research tool.

312 Intermediate Sign Language (3)

Prerequisite: Speech Comm 302 or consent of instructor. A review of basic sign language. Additional sign vocabulary acquisition and improvement of basic expressive and receptive skills in the simultaneous method of communication, utilizing traditional and SEE signs.

314A Student Ambassador Program Training (1)

Prerequisites: Speech Comm 100 or 102 and consent of instructor. An intensive training course in which selected students function as public spokespersons for CSUF. Topics include: interpersonal and public communication; research and speech writing; team building; interviewing; and image management.

320 Intercultural Communication (3)

Prerequisite: Speech Comm 100. Communication problems that result when members of different cultures communicate. How interpersonal communication can overcome differences in cultures' perceptions of communication's functionality, value orientations, nonverbal behavior, language, epistemologies and rhetorics.

324 Small Group Communication (3)

Prerequisite: Speech Comm 100 or 200. Application of small group and interpersonal communication theory and behavioral research findings. Communication facilitation among individuals in task realization, including interpersonal needs, leadership, norms, roles, verbal and nonverbal messages, and group systems and procedures.

325 Interviewing: Principles and Practices (3)

Prerequisite: Speech Comm 100 or consent of instructor. Principles and practices of interviewing processes. Consideration of appraisal, counseling, employment, exit, journalistic, persuasive and survey types of interviews. Case analyses, simulations and community fieldwork required.

332 Processes of Social Influence (3)

Prerequisite: Speech Comm 100 or 200. Major theories of communication concerned with influence and persuasion in society. Communication effectiveness through strategic application of theory to affecting change and evaluating appeals for change by others.

333 Communication in Business and Industry (3)

Prerequisite: Speech Comm 100 or 200. Human behavior, structural demands and communication within organizations. Application of theory and behavioral research as a framework for generating managerial communication competencies such as interviewing, briefings, conference leadership and intergroup coordination.

334 Persuasive Speaking (3)

Prerequisite: Speech Comm 102 or equivalent. Strategies and tactics appropriate to leading social policy persuasive campaigns. Emphasis on analysis of receiver variables, progressive use of persuasive materials, question and answer techniques, and the development of personal influence. Student presentations required.

335 Advanced Argumentation (3)

Prerequisite: Speech Comm 235 or consent of instructor. Argument as applied to advocacy; logic and evidence as related to analysis of significant issues.

Speech Comm 489A Public School Practical WEGER

337 Communication in the Legal Arena (3)

Prerequisite: an upper-division writing requirement course. The influence of communication behaviors on civil and criminal judicial processes. A review and evaluation of research into communication variables and legal practices, from interviewing to closing arguments. Courtroom observation required.

338 Intercollegiate Forensics (2)

Prerequisite: consent of instructor. Directed activity in debate and other forensic events. Participation in intercollegiate speech competition is required for credit. May be repeated for credit. (More than 6 hours of classwork for each unit of credit.)

341 Introduction to Phonetics (3)

Prerequisite: Speech Comm 100 or 200, or consent of instructor. The analysis and classification of phonemes of American English; the use of the International Phonetic Alphabet; and the study of factors influencing articulation and pronunciation. Work in language laboratory required. assumed animed and not

342 Introduction to Communicative Disorders (3)

An overview of content areas and principles of communicative disorders; classification of speech and hearing disorders; professional role at public school, hospital, and clinical sites. Lecture, observation, films, and demonstration.

343 The Neurology of Speech and Hearing (3)

Prerequisite: Biology 101 or Psychology 101. Anatomy and physiology of the nervous system as they relate to speech, language, and hearing processes. Emphasis on neuroanatomical bases of vision, audition, swallowing, and speech functions. Introduction to higher cortical functions also will be included.

344 The Anatomy and Physiology of Speech and Hearing (3)

Prerequisite: consent of instructor. Anatomy and physiology of the speech and hearing mechanisms; respiration, phonation, resonation, articulation and hearing. Normal functioning as a frame of reference for understanding disordered functioning. Laboratory experience.

345 Communication and Aging (3)

Prerequisite: Speech Comm 100 or consent of instructor. Communicative changes found in older adults including normal and pathologic changes in the physiological and behavioral aspects. Topics include diagnosis, rehabilitative strategies, social implications, and health care systems.

402 Advanced Phonetics (3)

Prerequisite: Speech Comm 341 or consent of instructor. Analysis of human speech sound production and narrow transcription. Sounds beyond the range of American English. Taped materials and introduction to phonetics lab including spectrographic analysis. (Same as Linguistics 402)

403 Speech/Language Development (3)

Prerequisite: Speech Comm 100 or 200, or consent of instructor. Phonology, morphology, syntax and semantics of speech and language development from birth through childhood. Meets the language and speech development and disorders requirement for specialized preparation to serve as teachers of exceptional children. (Same as Linguistics 403)

404 Communicative Disorders of the Bilingual/Bicultural Child (3)

Prerequisite: Speech Comm 403. A comparative analysis of normal vs. different, delayed, and deviant language development (phonology, morphology, syntax, semantics, and pragmatics) of the bilingual/bicultural child. Review of current research, assessment, and treatment strategies with the emphasis on the avoidance of biases.

410 Perceptual and Cognitive Problems of the Severe Language Handicapped Child (3)

Prerequisite: senior standing in communicative disorders or consent of instructor. Philosophies and strategies used in training severe language handicapped children to have competencies in basic reading, language and numerical concepts. Classroom management.

415 Interpersonal Communication Theory (3)

Prerequisite: Speech Comm 100 or 200, 308, 324, 420 or consent of instructor. The behavioral and humanistic approaches to theories of interpersonal communication. Functions of communication which influence interpersonal relationships, including communicator characteristics, information exchange, situational demands and interpersonal evaluations.

420 Communication Theory (3)

Prerequisites: Speech Comm 200, 300, 308, or graduate standing, or consent of instructor. Analysis of various theories and perspectives on human communication. Attention is paid to understanding basic forms of theories and to developing students' theoretical perspectives on human communication.

422 Applications of Intercultural Communication (3)

Prerequisite: Speech Comm 320. Nature and effects of intercultural communication within multicultural/multinational organizations. Examination of intercultural leadership, negotiation, decision-making, and communication competence. Analysis of and practice in a number of intercultural training approaches.

425 Organizational Communication Dynamics (3)

Prerequisites: Speech Comm 308 and 333. The interrelationships between management and communication theories. The microsystems and macrosystems within an organization are emphasized in terms of intrapersonal, interpersonal, small group and organizational communication theories.

430 Classical Rhetorical Theory (3)

Prerequisites: six units of upper division coursework in Speech Comm including Speech Comm 300. Significance of rhetoric and oratory in Greek and Roman intellectual life from the 4th Century B.C. to 300 A.D. Contributors include Protagoras, Socrates, Plato, Aristotle, Cicero, Quintilian, and Augustine.

432 Contemporary Rhetorical Theory (3)

Prerequisites: six units of upper-division courses in communication theory and process to include Speech Communication 300. The nature of rhetorical theory in the 20th century.

437 Internship: Speech Communication (3)

Prerequisites: any two of the following courses: Speech Comm 305, 324, 333, 420, 425 or consent of instructor. Onsite involvement with communication frameworks as they function in ongoing organizational settings. Working in an organization and seminar activities. Application for internship must be submitted prior to enrollment.

438 Principles of Rhetorical Criticism (3)

Prerequisite: six units of upper-division communication theory and process courses to include Speech Comm 300. Explanation and evaluation of rhetorical experience. Historical modes of criticism, issues in rhetorical criticism, criticism in various contexts and experiences in criticism.

441 Dysarticulation and Stuttering (3)

Prerequisites: Speech Comm 300 or graduate standing, 341, 342, 344, or consent of the instructor. Dysarticulation and stuttering studied with emphasis on descriptive and treatment principles which emerge from current theory and practice.

443 Voice Disorders and Cleft Palate (3)

Prerequisites: Speech Comm 300 or graduate standing, 341, 342, 343, and 344, or consent of instructor. Etiologic, diagnostic, and management aspects of communicative disorders associated with oromaxillofacial and laryngeal dysfunction or pathology.

444 Childhood Language Disorders and Adult Aphasia (3)

Prerequisites: Speech Comm 300 or graduate standing, and Speech Comm 341, 342, 343, 344 and 403. Communicative disorders involving language impairments in children and adults. Emphasis on relationship of language impairments to cognition, central nervous system operations and environmental influences.

451 Diagnostic Methods in Communicative Disorders (3)

Prerequisites: Speech Comm 300, 341, 342, 343, 344, and 441. Lecture and supervised demonstrations; techniques and procedures for the assessment of communicative disorders.

452 Therapeutic Procedures in Communicative Disorders (3)

Prerequisites: Speech Comm 300, 341, 342, 343, 344, and 441. Lecture and supervised demonstrations; techniques and procedures for the treatment of communicative disorders.

453 The Speech/Language and Hearing Clinician as a Counselor (3)

Prerequisites: Speech Comm 342, 441, 463, or consent of instructor. The dynamics of conferencing and counseling. Effective use of numerous relational and communication approaches in parent, family and client counseling. Increased self-awareness and the guidance of those exhibiting communication disorders. Making appropriate referrals.

458 Basic Clinical Practice: Communicative Disorders (3)

Prerequisites: Speech Comm 341, 342, 343, 344, 441, 451 and 452; senior or graduate standing and approved application prior to semester of practicum. The application of diagnostic and therapeutic care to children and adults exhibiting communicative disorders.

463 Audiology (3)

Prerequisites: Speech Comm 343 and 344, or consent of instructor. The nature of auditory functioning, physical and psychological. Anatomy, pathology and treatment. Rehabilitative methods, facilities and equipment. Partially fulfills the state requirements for public school audiometrist.

464 Audiometry (3)

Prerequisite: Speech Comm 463 or consent of instructor. Presents equipment, methods and procedures used in assessing the complete auditory system. Examines current topics of interest in the diagnosis and treatment of disorders of hearing. Partially fulfills the state requirements for public school audiometrist certification.

465 Aural Rehabilitation (3)

Prerequisites: Speech Comm 341, 463, or consent of instructor. Historical background of lipreading, methods used in the visual reading of speech, and auditory training techniques used in the rehabilitation of the aurally handicapped.

468 Audiology Practicum (1)

Prerequisites: Speech Comm 463, 464, 465 and approved application prior to semester of enrollment in practicum. Audiometric evaluations including pure tone testing, hearing aid evaluations, impedance audiometry and report writing. Provides clinical clock hours in audiology.

485 Aural Rehabilitation Practicum (1)

Prerequisites: Speech Comm 464, 465, and approved application prior to semester of enrollment. Supervised rehabilitation of hearing impaired children and adults in on- and off-campus facilities. Provides clinical clock hours in aural rehabilitation. Sign language background recommended.

489A Public School Practicum in Communicative Disorders (4)

Prerequisites: Speech Comm 559A, concurrent registration in Speech Comm 490, application approved prior to semester of practicum, 165 clock hours of clinical practice and graduate status. Meets the directed teaching requirements for the Clinical Rehabilitative Services Credential.

489B Public School Practicum in the Special Class (4)

Prerequisites: Speech Comm 410, Reading 480, Special Education 482A, Speech Comm 559A; Speech Comm 489A and 490 or concurrent enrollment; approved application; and 165 clock hours of clinical practice. Meets the directed teaching requirements of Clinical Rehabilitative Services Credential Special Class Authorization.

490 Seminar: Speech & Hearing Service in Schools (2)

Prerequisite: consent of instructor. Problems and challenges unique to the student clinician in the organization and management of the speech and hearing program in the school. The clinician's role; planning, scheduling, case finding, treatment program reporting and other responsibilities.

496 Student-to-Student Tutorials (1-3)

Consult "Student-to-Student Tutorials" in this Catalog for more complete course description.

410 Perceptual and Cognitive P

Open to upper-division students in speech communication only with signed consent form from department chair. May be repeated for credit.

500 Research in Speech Communication (3)

Prerequisites: Speech Comm 300, 308, or equivalent; admission to M.A. program. Research design and methods used in historical, descriptive and experimental research in speech communication.

510 Seminar in Interpersonal and Relational Communication (3)

Prerequisites: Speech Comm 324, 415 and 420 or consent of instructor. Theoretical and empirical examination of interpersonal and relational communication. Generation of theoretical frameworks and/or heuristic models of concepts and process under investigation.

520 Seminar in Group Communication (3)

Prerequisites: Speech Comm 324 and 420. Small group communication theory. Small group variables, methods and outcomes, and group process as a learning tool.

522 Seminar in Intercultural Communication (3)

Prerequisite: Speech Comm 320 or consent of instructor. Review of theory and methodology in intercultural communication research. Specific variables examined include attribution, values, communication competence, and accultaration/adaptation. Practice in completing original research in intercultural communication

525 Seminar in Organizational Communication (3)

Prerequisites: Speech Comm 324, 420, and 425, or consent of instructor. Theoretical postulates concerning managerial and organizational communication. Research findings and case studies relating to communication determinants and organizational effectiveness. Communicative relationships among individuals, the work unit and the organization.

535 Seminar in Argumentation and Persuasion. (3)

Prerequisites: Speech Comm 332, 334, or 335 or consent of instructor. Study of leading theories and empirical research on argumentation and persuasion. Strategies of effective advocacy and compliance-gaining are examined. Course content deals with both laboratory research and applied settings. Ethical issues related to argumentation and persuasion are examined.

536 Seminar in Communication and Rhetorical Theory (3)

Prerequisite: admission to graduate program in speech communication. An analysis of rhetorical and communication theories. Comparisons and contrasts of the epistemological bases of empirical and humanistic inquiry.

542 Neurologic Bases of Speech and Language (3)

Prerequisites: Speech Comm 343, 344, 444, or consent of instructor. Functional neuroanatomy as it relates to speech production and swallowing; the neuropsychologic bases of consciousness, attention, sensation, perception, memory, higher mental functions, and language with emphasis on those aspects most relevant to the speech-language pathologist.

543 Seminar in Communicative Disorders: Neuropathologies (3)

Prerequisites: Speech Comm 441, 443 and 542 or consent of instructor; admission to M.A. program. Problems in neuropathologies. Investigation of experimental and clinical research.

544 Seminar in Communicative Disorders: Aphasia (3)

Prerequisites: Speech Comm 542, 543 or consent of instructor; admission to M.A. program. The etiology of aphasia, dysarthria, and apraxia. Diagnosis of communication problems arising from brain-damage. Guest lecturers in aphasia, dysarthria, apraxia, stroke research, internal medicine.

558 Intermediate Clinical Practice: Communicative Disorders (2)

Prerequisite: Speech Comm 458 or equivalent, admission to graduate program in communicative disorders and approved application prior to semester of practicum. Intermediate clinical practicum in the on-campus Speech and Hearing Clinic for children and adults. Skills and procedures in diagnosis, therapy, report writing and record keeping.

559A Advanced Clinical Practice: Communicative Disorders (2)

Prerequisites: Speech Comm 542, 558, one other seminar in communicative disorders, and approved application submitted prior to semester of practicum. Advanced clinical practice under supervision with children and adults. Off-campus program in hospitals, clinics, centers and other areas of rehabilitation. All aspects of communicative disorders, speech, hearing and language.

559B Advanced Clinical Practice: Communicative Disorders (2)

Prerequisite: Speech Comm 559A, approved application prior to semester of practicum, or consent of instructor. Advanced clinical practice, under supervision, in off-campus medical, clinical and community center facilities. All aspects of communicative disorders, speech, hearing and language.

570 Seminar in Communicative Disorders: Oromaxillofacial Dysfunction (3)

Prerequisites: Speech Comm 441 and 443; admission to M.A. program. Anatomical and physiological classification systems and diagnostic, therapeutic and research considerations.

571 Seminar in Communicative Disorders: Stuttering (3) Prerequisites: Speech Comm 441 and 444; admission to M.A. program. Problems in stuttering: investigation of experimental and clinical research.

573 Seminar in Communicative Disorders: Voice (3)

Prerequisites: Speech Comm 441, 443, 542 or consent of instructor; admission to M.A. program. Problems of voice: investigation of experimental and clinical research.

574 Seminar in Communicative Disorders: Articulation (3) Prerequisites: Speech Comm 441, 443, 542 or consent of instructor; admission to M.A. program. Problems of articulation: investigation of experimental and clinical research.

575 Seminar in Communicative Disorders: Developmental Disabilities (3)

Prerequisites: Speech Comm 441, 444, 542 or consent of instructor; admission to M.A. program. Classifications, etiologies, diagnostic and management programs including sociologic, vocational and psychologic factors and communicative disorders of the mentally retarded population.

577 Seminar in Communicative Disorders: Childhood Language Disorders (3)

Prerequisite: Speech Comm 542. Methods of describing and managing language pathologies in children; lecture, case presentation and review of current literature.

596 Directed Graduate Research (3)

Prerequisite: Speech Comm 500. Individual research study, under the supervision of the chair of the student's advisory committee.

598A,B,C Thesis (2,2,2)

Prerequisite: Speech Comm 500. The selection, investigation and written presentation of a selected problem in the field of speech.

599 Independent Graduate Research (1-3)

Open to graduate students only with signed consent form from department chair. May be repeated for credit.

Speech Communication Education Courses

442 Teaching Speech in the Secondary School (3)
Prerequisite: admission to teacher education. Objectives, methods and materials for teaching speech in secondary schools. Required, before student teaching, of students presenting majors in speech for the standard teaching credential.

449E Externship in Secondary Teaching (3)
See description under Division of Teacher Education.

449I Internship in Secondary Teaching (10)
See description under Division of Teacher Education.

449S Seminar Secondary Teaching (2)
See description under Division of Teacher Education.

542 Neurologic Bases of Speech and Lauguage (3)

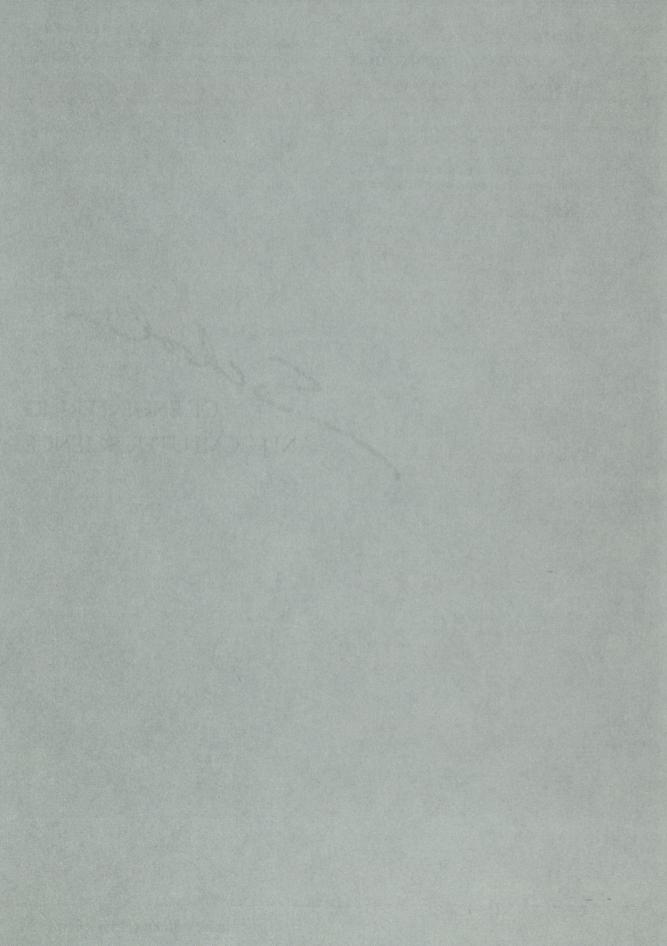
543 Seminar in Communicative Depote by margine A.M.

hrain-damage. Guest, lecturers in aphasia, dyserthria, apaxia, stroke research, internal medicine aphasia questo de la contraction de la c

Prerequisite: Speech Comm 430 or equivalent, admission to

dren and audics Skills and procedures in displaces, therapy, report writing and record keeping.

OF ENGINEERING AND COMPUTER SCIENCE



School of Engineering and Computer Science



Craduate students should consult the graduate adviser in their

Dean: Andy R. Bazar

Associate Dean, Academic Affairs: James J. Rizza (Acting)

Associate Dean, Administration: (Vacant) Assistant Dean, Student Affairs: Charlene S. Mathe Dean's Office: Computer Science 502

Programs Offered mahou sol all solutions and materials a

Computer Science (B.S., Minor, M.S.)

Engineering (B.S., M.S.) And Instants and Sailbroom or bestim

Option in Civil Engineering

Option in Electrical Engineering

Option in Mechanical Engineering

Option in Engineering Science Option in Systems Engineering (M.S. only)

Introduction departments civil, electrical and men and introduction

The curricula of the School of Engineering and Computer Science are designed to prepare students for careers in engineering, and computer science, and for further study and specialization in advanced graduate work. The faculty of the school is actively involved not only in instruction and scholarship but also in the advisement of students in the school on topics relating to the planning of career and program goals. Cooperative education and internship programs are available.

between busy mathyscience and engineering or busy mathyscience and engineering Engineering is the application of scientific principles to the solution of practical problems. Engineers are professionals who employ the empirical art and techniques of engineering to the benefit of the society. Throughout the ages, human progress has been able to flourish due to the brilliant minds of engineers. Historical works, such as the Egyptian pyramids, the Roman aqueducts, and the Greek and Persian monuments, are examples of engineering ingenuity. In the contemporary world, the technological breakthroughs, such as computers, lasers, and robots, have become reality due to the creativity and imagination of engineers.

People-made wonders, such as the Hoover Dam, the Golden Gate Bridge, the Empire State Building, and the Gateway Arch on the Mississippi River, are examples of engineering ingenuity. Great inventors like Leonardo da Vinci, Galileo, James Watt, and Thomas Edison had exceptional engineering minds.

Engineers need a firm knowledge of the sciences and mathematics and must be able to analyze complex situations involving people, money, machines, and information in order to create workable and economical designs. Engineers often work with others in a team to develop systems and projects. The increasing technological complexity of modern society offers both opportunities as well as challenges to the engineering graduates of the future.

Engineers are employed in practically every field of human endeavor. This includes manufacturing, construction, education, government, health care, and business. As society becomes increasingly more technological, an engineering education provides a background for careers which will extend well into the 21st century. There is a real need for more engineering professionals, and so there are tremendous opportunities for everyone, including women and underrepresented minorities, in this field.

The School of Engineering and Computer Science has developed a reputation for excellence in its undergraduate and graduate engineering and computer science programs. The school is committed to providing the student with a solid preparation in the fundamental principles of engineering as an applied science as well as the practical experience to use these principles in the solution of engineering problems.

At CSUF students who are pursuing the Bachelor of Science in Engineering degree are affiliated with one of the school's three engineering departments: civil, electrical and mechanical engineering. These programs are accredited by the Accreditation Board for Engineering and Technology (ABET).

Each degree program incorporates the following curricular areas:

- Mathematics and basic science courses such as physics and chemistry
- Engineering science courses such as thermodynamics, materials science, and electrical circuits, which provides a bridge between basic math/science and engineering practice
- Engineering design courses in which a system, component, process or structure is devised to meet a specific need
- General education courses in the arts, humanities, and social sciences

Each undergraduate program prepares students for entry into the engineering profession or for further study and specialization in graduate study.

Computer Science

Computer Science deals with all phases of information including its representation, storage, structure, display and the processes by which it is transformed and used. Computer science professionals create new systems such as an inventory control system for a large manufacturer, or a navigational system for a new space computer, or a decision support system for the management of a bank. These people use their technical skills to convert specific needs into specialized programs, procedures, and systems that will actually do the job.

Students who pursue the Bachelor of Science in Computer Science degree at CSUF are prepared for careers in a variety of fields in business, government, and industry. The curriculum, which is accredited by the Computing Sciences Accreditation Board (CSAB), emphasizes fundamental concepts exemplified by various types of programming languages, computer architectures, operating systems, and data structures.

The computer science program focuses on several curricular objectives — which are designed to provide the student with the foundations of the discipline and the opportunity for specialization. The department faculty are highly versed in the discipline through education and work experience.

The Computer Science Building houses five large computer science laboratories with an extensive range of computers and related equipment for student use. The building provides ample space for a full range of state-of-the-art systems and equipment that include parallel systems, computer networks, super-mini computers, and high-resolution color graphics.

Undergraduate Student Advisement

Undergraduate students should call the department office of their major to arrange for advising and approval of their study plan. University policy requires students to see an adviser each of their first two semesters and every year thereafter. Three critical times for advising are before registering for the first semester, when selecting electives for the study plan, and two semesters before graduation for a graduation check. Most departments prefer to advise their majors more frequently.

Students interested in programs in the school, but without a declared major should call the Office of the Dean for advisement.

Graduate Student Advisement

Graduate students should consult the graduate adviser in their major department before registering for the first semester. No more than nine units may be completed before an approved study plan is filed.

Program in General Education

Because of high unit requirements for the Bachelor of Science in Engineering, these programs have modified requirements for general education. Students should consult the department for requirements.

Majors in the School of Engineering and Computer Science should take mathematics and other courses in related fields early. General education courses normally should be scheduled throughout the student's program of study.

Minority Engineering Program (MEP)

The school sponsors a Minority Engineering Program designed to provide special academic support for underrepresented students (Black, Mexican American, Puerto Rican and American Indian) who are majoring in engineering or computer science. A summer orientation program, scheduling assistance, a study center, student tutoring, and special faculty help are provided to students in the program. Interested students should contact the dean's office for further information.

MESA

The goal of the MESA (Mathematics, Engineering, Science Achievement) Program is to increase the number of historically underrepresented minorities prepared to succeed in mathematicsbased majors in college and to increase their awareness in the math/science fields. Private industry, CSUF and the State of California provide funding for the program. The Orange County MESA Center presently provides services to nearly 300 Black, Mexican American, Puerto Rican, and American Indian students at eleven area schools.

Student Organizations

There are ten active students organizations in the school. These are student branches of American Society of Civil Engineers, American Society of Mechanical Engineers, Institute of Electrical and Electronic Engineers, Society of Mexican American Engineers and Scientists, National Society of Black Engineers, Society of Automotive Engineers, Tau Beta Chi, Society for the Advancement of Materials and Process Engineering, and Society of Women Engineers. These ten societies form the school's Inter-Martin Karz, Barbara Lagena, Martin Makanuss .lionuo dulo Michalonoulos, Marko Molodowitch, Charles Mosmann.

Department of Computer Science

Department Chair: Charles Mosmann

Vice Chair: David Falconer

Department Office: Computer Science 522

Programs Offered

Bachelor of Science in Computer Science

Master of Science in Computer Science

Minor in Computer Science

Faculty

David Falconer, James Hester, Floyd Holliday, Alyce Jackson, Martin Katz, Barbara Laguna, Martin Maskarinec, Demetrios Michalopoulos, Mariko Molodowitch, Charles Mosmann, Nick Mousouris, Frank Pagan, Edward Sowell, Melanie Wolf-Greenberg

INTRODUCTION

The undergraduate program in computer science prepares students for careers in applications programming, systems programming, and software engineering, as well as entrance into graduate and professional schools. The curriculum emphasizes fundamental concepts exemplified by various types of programming languages, computer architectures, operating systems, and data structures.

The program is accredited by the Computing Sciences Accreditation Board.

The computer science program is designed to provide the student with the foundations of the discipline as well as the opportunity for specialization. Six objectives are addressed: (1) development of the ability to write correct, well-documented programs in a reasonable time; (2) identification of problems that are amenable to computer solutions, and knowledge of the various tools necessary for solving such problems; (3) development of the ability to work individually or as part of a team; (4) development of an understanding of basic computer architecture and operations; (5) preparation to pursue in-depth training in one or more application areas, or further education in computer science, and (6) development of the ability to write and speak effectively.



BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Each Computer Science major is required to complete a minimum of 130 units including general education. The degree program assumes that the student has already obtained a working knowledge of at least one high-level programming language such as Pascal and a working knowledge of personal computing fundamentals and applications, including word processing, spreadsheets, database systems, and presentation graphics. Students without this knowledge may be required to take up to seven additional units of coursework beyond those normally required by the major.

Courses taken toward the major or toward the requirements in related fields must be taken on a traditional (letter grade) basis, unless the course is offered only on a non-traditional (credit/no credit) basis, or if the course is passed by a challenge examination. Further, no class with a grade of "D" or lower will be counted toward the major, as a prerequisite to a course in the department, or toward the requirements in related fields. Each student is required to complete the following set of requirements.

Computer Science Placement Examination

Before entry into the first course required by the major (Computer Science 131), the student is required to take a placement examination or complete the required prerequisite courses offered by the department.

Computer Science Core (48 units)

Lower-Division Core (15 units)

Computer Sci 131 Data Structures Concepts (4)

Computer Sci 231 File System Concepts (3)

Low-level Language Systems (3) Computer Sci 241

Computer Sci 245 Computer Logic and Architecture (3)

Computer Sci 245L Computer Logic and Architecture

Laboratory (2)

Upper-Division Core (18 units)

Computer Sci 321 High-level Language Concepts (3)

Information Structure Concepts (3) Computer Sci 331

Operating Systems Concepts (3) Computer Sci 351

Computer Sci 373 Formal Method Concepts (3)

Computer Sci 423 Language Processor Techniques (3)

Computer Sci 461 Software Engineering Techniques (3)

Computer Science Workshops (4 units)

Four (4) units of computer science workshop classes must be selected from Computer Science 223B-Z High-level Language Workshops, 243A-Z Low-level Language Workshops, and 253A-Z Operating System Workshops. Each student must take 223U and 253U. The remaining units of computer science workshops must be coordinated with the technical electives and approved in advance by a departmental adviser.

Technical Electives (12 units)

Each Computer Science major must take 12 units of technical electives which must be approved in advance by a departmental adviser. These electives must be selected from upper-division courses offered by the department or upper-division courses in numerical analysis or simulation offered by closely-related departments. The electives shall constitute a coherent body of study consistent with the student's professional and educational objectives. No more than three (3) units of coursework may be selected from Computer Science courses numbered 490 through

Requirements in Related Fields (39 units)

Mathematics Requirement (17 units)

Mathematics 150A,B Analytic Geometry and Calculus (4,4)

Mathematics 270A,B Mathematical Structures (3,3)

Mathematics 338 Statistics Applied to Natural Sciences (3)

Science/Quantitative Studies Requirement (14 units)

Physical Science (8 units)

One of the following combinations: (3) unitsoubli learned

Physics 225A Fundamental Physics: Mechanics (3)

Physics 225AL Fundamental Physics: Laboratory (1)

Physics 225B Fundamental Physics: Electricity and Magnetism (3)

Physics 225BL Fundamental Physics: Laboratory (1)

Chemistry 120A General Chemistry (5)

Chemistry 125 General Chemistry for Engineers (3)

Geological Sci 101 Physical Geology (3)

Geological Sci 1011 Physical Geology (3)

Geological Sci 101L Physical Geology Laboratory (1)

Geological Sci 201 Earth History (4)

Biological Science (3)

Biology 131 Principles of Biology (3)

(Biology 101 Elements of Biology (3) or the equivalent may be substituted for 131.) O comband of molecial A

Science/Quantitative Studies (3 units)

A one-semester course selected with approval of adviser from the following courses: 18 to agree truog-obers a stary know accupant

Biology 241 Principles of Botany (4) Brond Brond

Biology 305 Human Heredity & Development (3)

Biology 310 Human Physiology (3)

Marine Biology (3) Biology 319

Biology 404 Evolution (3)

EG-GN 308 Engineering Analysis (3)

Geological Science 140 Earth's Atmosphere (3)

Geological Science 335 General Hydrology (3)

Geological Science 376 Applied Geology (3)

Management Science 362 Management Science Methods in Business and Economics (3)

Mathematics 335 Mathematical Probability (3)

Mathematics 370 Math Model Building (3)

Physical Education 349 Measurement and Evaluation in Physical Education (3)

Physics 200 Introduction to Astronomy (4)

Physics 225C Fund Physics: Modern Physics (3)

Physics 305 Acoustics (4)

Physics 380 Methods in Experimental Physics (3)

Psychology 202 Research Methods in Psych (3)

Sociology 302 Social Research Methods (3)

Speech Comm 308 Quantitative Research Methods (3)

Undesignated Units (8 units) (start VI) programmy A commontable

These are to be taken in related fields and/or career support fields, with prior adviser approval.

Upper Division Writing Requirement (3 units)

Computer Science 311, which meets the University requirements for an upper-division writing course, must be completed before the senior year.

General Education (39 units) mandatos animolfol ada lo ano

Computer Science students must complete the university's general education requirements. See the "General Education" section of this catalog.

MINOR IN COMPUTER SCIENCE

A Computer Science minor shall consist of 21 units of course work which shall include Computer Science 131, 231, 241; nine units of adviser-approved upper division computer science elective courses; and 2 units of programming language workshops (Computer Science 223B-Z, 243A-Z). Six units of upper division courses must be taken in residence. A minimum of 12 units, of which at least 6 must be upper division, must be distinct and different from the units used to complete the requirements for the student's major.

MASTER OF SCIENCE IN COMPUTER SCIENCE

Admission to Graduate Standing: Conditionally Classified

A bachelor's degree from an accredited institution with a gradepoint average of at least 2.5 in the last 60 semester units attempted is required. Additionally, nine units of computer science course work with a grade-point average of at least 3.0 is required. Any deficiencies must be made up and will require six or more units of adviser-approved course work with at least a 3.0 average in addition to those required for the degree. A 200 years a

Classified Graduate Standing (2) ygoloid sninsM R1E ygoloid

Achievement of this status requires the following: 100 years

1. Approval of a formal study plan (see description below) by the Computer Science Graduate Committee and the dean of Geological Science 376 Applied Geology seibute studies

- 2. Satisfactory completion of no more than nine units on the study plan.
- 3. Satisfactory completion of the following courses or equivalents including prerequisites: Computer Science 223, 231, 241, 245, 245L, 321, 331, 351, 373, 423, 431, and Mathematics 270A.B.
- 4. Competency in written communication in English must be demonstrated by a passing score on the California State University, Fullerton Examination in Writing Proficiency. The requirement must be satisfied before the student can be classified and before 500-level courses may be attempted. Students who do not possess a bachelor's degree from a postsecondary institution where English is the principal language of instruction should take English 201 and Computer Science 311 to prepare for the Examination in Writing Proficiency.

Talented professional computer scientists have traditionally come from a diversity of undergraduate preparations. The listed courses have been carefully selected to provide an adequate basis for graduate work while not unfairly precluding admission of persons without a bachelor's degree in computer science. It should be noted, however, that each of these courses has prerequisites and the student without preparation in a closely related degree may have considerable work to complete beyond the courses listed here. Reference should be made to the catalog descriptions for prerequisites of each course deficiency.

These courses and their prerequisites constitute program prerequisites. Students are advised not to enroll in courses for which they have prerequisite deficiencies. Students with experience equivalent to any or all of these prerequisite courses are encouraged to satisfy such prerequisites by advanced placement examination. Consult the Computer Science graduate adviser for further information.

Study Plan

Prior to admission to classified graduate standing in Computer Science, the student with the aid of a Computer Science graduate adviser shall prepare and submit for approval by the computer science department graduate committee a formal study plan consisting of a minimum of 30 units of 400 level and graduate course Computer Sci 373 Formal Method Concepts (3) work.

This shall include Computer Science 412, 461, 563, 589, 597 or 598, and 15 units of electives (9 units must be at the 500-level). At least 15 units shall represent courses offered by the Department of Computer Science. Courses offered by other disciplines, not listed here, and related to the students' objectives in computer science may be approved by petition to the Department of Computer Science, Lock dors Rock Strong System Vorkshops, Each structure of the Computer Strong System Vorkshops, Each structure of the Computer Strong System Vorkshops, Each Strong St

All course work in the study plan must be completed with a GPA of at least 3.0.

Graduate Student Advisement

The graduate program adviser provides overall supervision of the graduate program. The individual student chooses an adviser from the full-time faculty of the Computer Science Department on the basis of the student's particular interests and objectives.

Computer Science Courses

Prerequisites for computer science courses may be waived only by department petition. Prerequisite courses must be passed with a grade of "C" or better.

103 Introduction to Personal Computer Applications (3)

Introduction to use and application of personal computers: word processing, spreadsheets, database systems, computer languages. Evaluation of personal computers and software. (2 hours lecture/2 hours activity per week)

112 Introduction to Computer Programming (3)

Prerequisite: three years of high school mathematics including two years of algebra. Provides programming experience in BA-SIC programming language. Problem solving and structured programming are emphasized. (2 hours lecture, 2 hours laboratory)

121 Programming Concepts (4)

Prerequisite: three years high school mathematics including trigonometry. Introduction to programming of digital computers; subroutines, functions, and structure of algorithms; elementary input/output; arrays; strings, and data types. (3 hours lecture, 2 hours laboratory).

123 Programming Concepts Review (2)

Prerequisites: three years high school mathematics including trigonometry and sufficient score on Computer Science Placement Exam. Accelerated coverage of Computer Science 121 for students who wish to take Computer Science 131 but lack sufficient knowledge of Pascal.

131 Data Structures Concepts (4)

Prerequisites: Computer Science 121 or sufficient score on the Computer Science Placement Exam, high school computer applications, and three years high school mathematics including trigonometry. Data structures: linked lists, stacks, queues, arrays, sequential text files, text formatting. (3 hours lecture, 2 hours laboratory) ARE TENOREM TRANSPORTED ERA (vroaterated in the control of the

133 Data Structures Review (2)

Prerequisite: a sufficient score on the Computer Science Placement Exam. Accelerated coverage of Computer Science 131 for students who wish to take Computer Science 231 but lack sufficient knowledge of Ada and/or data structure.

223 High-level Language Workshops (1-3)

Workshops in the use of various high-level programming languages. Credit/No Credit only. Prerequisites and units vary.

223A Workshop in ADA (1)

Prerequisite: Computer Science 112 or 121 or General Engineering 205. May not be taken for Computer Science Department workshop credit by students who have taken Computer Science 131 with Ada. (2 hours activity)

223B Workshop in Advanced ADA (1)

Prerequisite: Computer Science 223A or Computer Science 131 (with Ada). (2 hours activity)

223C Workshop in COBOL (3)

Prerequisite: Computer Science 231. (2 hours lecture, 2 hours activity). ependent Study 11-31 XIMU at qualishold USES

223D Workshop in PROLOG (1)

Prerequisites: Computer Science 112 or 121 or General Engineering 205 and Mathematics 270A. Workshop in Prolog (2). (2 hours activity)

223F Workshop in FORTRAN-77 (1)

Prerequisite: Comp Sci 112 or 121. Not open to students who have taken General Engineering 205. (2 hours activity)

223K Workshop in LISP (1)

Prerequisite: Computer Science 112 or 121 or General Engineering 205. (2 hours activity)

223U Workshop in C (1)

Prerequisite: Computer Science 112 or 121 or General Engineering 205. (2 hours activity)

231 File System Concepts (3) The same to the same of the East

Prerequisite: Computer Science 131 with Ada or Computer Science 133 or 223A. Characteristics and utilization of bulk storage devices. B-trees and plex structures. Sequential and random

241 Low-level Language Systems (3)

Prerequisite: Computer Science 131. The structure of low-level computer languages. Machine, assembly, and macro language programming. Principles of assembler operation. (Same as Electrical Engineering 241) con ideration. Turrepreny business, Turreduction to leave 243 Low-level Language Workshops (2)

Prerequisite: Computer Science 241. Workshops in the use of specific low-level programming languages. See list following. Offered Credit/No Credit only.

243F Workshop in 680X0 Assembly Language

243J Workshop in IBM Basic Assembly Language

243Y Workshop in 80X86 Assembly Language

245 Computer Logic and Architecture (3)

(Same as Electrical Engineering 245)

245L Computer Logic and Architecture Laboratory (2) (Same as Electrical Engineering 245L)

253 Operating System Workshops (1)

Workshops in the use of specific operating systems. See list following. Offered Credit/No Credit only. Prerequisites vary. (2 hours activity)

253D Workshop in MS-DOS

Prerequisite: Computer Science 141.

253E Workshop in OS/2

Prerequisite: Computer Science 141.

253U Workshop in UNIX

Prerequisites: Computer Science 112 or 121 or General Engineering 205.

253V Workshop in VMS

Prerequisites: Computer Science 112 or 121 or General Engineering 205. CONTRACTED SCIENCE CYNYNOS ABOUT

253W Workshop in VM

Prerequisites: Computer Science 112 or 121 or General Engineering 205.

311 Technical Writing for Computer Science (3)

Prerequisites: Computer Science 231, 241 and English 101. Practice in developing documentation skills as used in the computer field. Topics include proposals, feasibility studies, user guides and manuals, business communication and technical presentation. Case studies in professional ethics. Both written and oral reports are required.

313 The Computer Impact (3)

Prerequisite: upper division standing. Not for Computer Science majors. How computers are used and how this use affects organizations that use them. The side effects of innovative technology in changing organizations, social institutions, and human perceptions of the world we live in. 241 Low-level Language Systems (3)

321 High-Level Language Concepts (3)

Prerequisites: Computer Science 231, 241 and at least one highlevel language workshop. Language definition concepts. Data types and structures. Control structures and data flow. Run-time considerations. Interpretive languages. Introduction to lexical analysis and parsing.

331 Information Structure Concepts (3)

Prerequisites: Computer Science 231, 241. Corequisite: Mathematics 270B. Advanced data structures, sorting, searching, graph algorithms. Introduction to efficiency analysis.

351 Operating Systems Concepts (3)

Prerequisites: Computer Science 223U, 231, 241 and 253U. Resource management, memory organization, input/output, control process synchronization and other concepts as related to the objectives of multi-user operating systems. (2 hours lecture, 2 hours laboratory)

371 Introduction to Combinatorics (3) (Same as Math 371)

373 Formal Method Concepts (3)

Prerequisite: Computer Science 231 and Mathematics 270A. Algorithmic concepts; models of computation; foundations of programming languages; unsolvable problems; context-free languages, machines and grammars.

381 Knowledge Engineering (3) 384 199 VIVIDS 84001 Stand

Prerequisites: Completion of Critical Thinking and Mathematical Concepts of General Education Program. Understanding and intelligence within the context of knowledge engineering; knowledge structures; representative artificial intelligence programs; machine learning; effects of knowledge engineering.

404 Introduction to Microprocessors and Microcomputers (3)

(Same as Electrical Engineering 404) Recognisite orbreo years high school insheratiss matuding

411 Computers and Society (3)

Prerequisite: Computer Science 311. The developing role of computers in today's world. Effect of computers on the environments in which they are applied and public attitudes affecting computer use. Emphasis on ethical, legal and educational responsibilities of the computer professional.

412 Computer Architecture (3)

(Same as Electrical Engineering 412) students who wish to take Computer Science 131 our netsum-

423 Language Processor Techniques (3)

Prerequisites: Computer Science 321 and 373. Concepts behind the design and implementation of programming language processors such as compilers and interpreters. The design of a small compiler from a software engineering perspective.

plications, and there seeds high school mathematics including

431 Database Systems (3)

Prerequisite: Computer Science 311 and 351. Database models; hierarchical, network, relational, functional, ERA and objectbased. Distributed DBMS and concurrency control. Query optimization.

433 Data Security and Encryption Techniques (3)

Prerequisite: Computer Science 311, 351 and Mathematics 270B. System security and encryption. Current issues in security, encryption and privacy of computer based systems.

435 Algorithms for Parallel Processing (3)

Prerequisites: Computer Science 223U, 253U, 331 and 351. Brief survey of parallel processing architectures; concurrent decomposition strategies for parallelizing; selected parallel algorithms from sorting, dictionary operations, matrix operations, graph algorithms, combinatorial search, and logic programming. 2 hours lecture/2 hours activity per week.

457 Computer Communications (3)

Prerequisite: Computer Science 351. An introduction to digital data communications. Terminology, networks and their components, common-carrier services, telecommunication facilities, terminals, error control, multiplexing and concentration techniques.

459 Micro-Computer Software Systems (3)

Prerequisite: Computer Science 351 or equivalent. The design and implementation of software. Analysis of a micro-computer operating system and work on a team to implement a significant programming assignment.

461 Software Engineering Techniques (3)

Prerequisites: Computer Science 311, 321, 331 and passing score on the Examination in Writing Proficiency (or equivalent). The design and development of large software systems. Organization and control of the system development process. Students will implement and discuss large scale team projects. 2 hour lecture, 2 hour laboratory.

465 Principles of Computer Graphics (3)

Prerequisite: Computer Science 253U, 331 and Mathematics 270B. Examination and analysis of computer graphics; software structures, display processor organization, graphical input/output devices, display files. Algorithmic techniques for clipping, windowing, character generation and viewpoint transformation. 2 hour lecture, 2 hour laboratory.

471 Formal Languages and Automata (3)

Prerequisite: Computer Science 321 and 373. Finite and infinite languages; the formal relation between generators and acceptors; types of formal grammars; decidability and partial decidability.

475 Analysis of Algorithms (3)

Prerequisite: Computer Science 331. Advanced techniques for solving classes of computationally complex problems. Analytic techniques for the determination of algorithm efficiency. NPcomplete problems, complexity hierarchies, and provably intractable problems.

477 Cybernetics and Information Theory (3)

Prerequisites: Computer Science 373 and Mathematics 250B. Formal theories underlying artificial intelligence. Cybernetics, information theory, decision models, Shannon's theorem, adaptive machines, search techniques, stochastic automata, time series analysis and reliability theory.

481 Artificial Intelligence (3)

Prerequisites: Computer Science 331. Use of computers to simulate human intelligence. Topics include production systems, pattern recognition, problem solving, searching game trees, knowledge representation, and logical reasoning. Programming in AI environments.

483 Pattern Recognition Techniques (3)

Prerequisites: Computer Science 331, Mathematics 250B or Mathematics 270B, and 338. Classification techniques, discriminant functions, training algorithms, potential function theory, supervised and unsupervised learning, feature selection, clustering techniques, multidimensional rotations and rank ordering relations.

495 Internship in Computer Science (1-3) 11 14 14 14 18 28 28 2

Prerequisite: computer science or related major and consent of instructor. Practical experience relevant to computer science in government or private agencies. Written and oral reports are required.

499 Independent Study (1-3)

Prerequisite: approval by the undergraduate coordinator. Special topic in Computer Science, selected in consultation with and completed under the supervision of instructor.

521 Compiler Design (3)

Prerequisite: Computer Science 373 and 423 or equivalents. Techniques for the design of compilers and their relations to formal automata and formal grammars.

523 Theory of Programming Languages (3)

Prerequisites: Computer Science 321 and 373. Techniques and metalanguages for the formal specification of the syntax and semantics of programming languages, and related topics. Attribute grammars, two-level grammars, grammar-based semantic specification, operational semantics, denotational semantics, continuation semantics, axiomatic semantics.

531 Design of Database Management Systems (3)

Prerequisite: Computer Science 431. Implementation techniques for query analysis, data allocation, concurrency control, data structures, and distributed databases. New database models and recent developments in database technology. Student projects directed to specific design problems.

551 Operating Systems Design (3)

Prerequisite: Computer Science 351 or equivalent. Design and evaluation techniques for controlling automatic resource allocation, providing efficient programming environments and appropriate user access to the system, and sharing the problem solving facilities.

557 Microprogramming and Emulation (3) In Institute 184

(Same as Electrical Engineering 557)

563 Topics in Software Engineering (3)

Prerequisites: Computer Science 461 and graduate standing in Computer Science. Current topics in software engineering such as verification and validation, configuration management, and software engineering economy. May be repeated for credit.

581 Applications of Artificial Intelligence (3)

Prerequisites: Computer Science 481 and graduate standing in Computer Science. Current applications in artificial intelligence such as expert systems, fuzzy systems, machine vision and natural language processing. May be repeated for credit provided topic is not duplicated.

589 Seminar in Computer Science (3)

Limited to students who have completed at least 6 units of 500-level courses in Computer Science. Current topics, research advances, updating of concepts, and verification of principles of Computer Science. Possible topics include: Large-scale parallelism; design of user interface; computers in instruction. May be repeated for credit.

521 Compiler Design (3)
Prerequisite: Compiler Science 373 and 423 or equivalents.

Prerequisities Computer Scilia (3) research principles Springer of 182

597 Project (1-3)

Prerequisites: classified graduate standing and approval of the computer science graduate adviser.

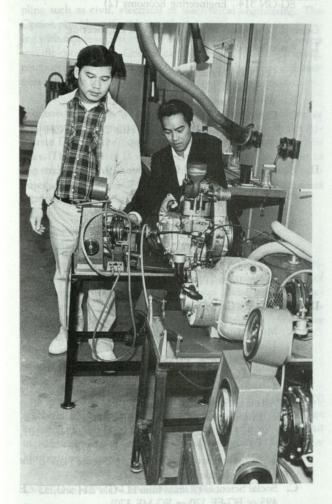
598 Thesis (1-3)

Prerequisites: classified graduate standing and approval of the computer science graduate adviser.

599 Independent Graduate Research (1-3)

Prerequisites: classified graduate standing and approval by the computer science graduate adviser. Special topic in computer science, selected in consultation with and completed under supervision of instructor.

475 Analysis of Algorithms (3)



Departments of Engineering

Programs Offered

Bachelor of Science in Engineering

Option in Civil Engineering

Option in Electrical Engineering

Option in Mechanical Engineering

Option in Engineering Science

Master of Science in Engineering

Option in Civil Engineering and Engineering Mechanics

Option in Electrical Engineering

Option in Mechanical Engineering

Option in Systems Engineering

Option in Engineering Science

INTRODUCTION

The undergraduate engineering programs have a broad base of science, mathematics, social sciences, humanities and engineering science, coupled with the specialization in one of the options. Students are thus prepared to enter directly into engineering practice or to continue further education at the graduate level. The Bachelor of Science Degree in Engineering, with options in Civil, Electrical and Mechanical Engineering, is accredited by the Accreditation Board for Engineering and Technology (ABET).

High School Preparation

The entering high school student should have a preparation which includes two years of algebra, geometry, trigonometry, and one year of physics or chemistry. Students deficient in mathematics or chemistry must take special preparatory courses, i.e., Mathematics 125 and Chemistry 115, which will not carry credit for the major. (See Mathematics Section for Entry Level Mathematics test and Math-Science Qualifying Examination requirements.)

Transfer Students

A transfer student shall complete a minimum of 30 units in residence of which at least 15 shall be taken in upper-division engineering courses. Work taken at another college or university on which a grade of D was earned may not be substituted for upper-division courses.

BACHELOR OF SCIENCE IN ENGINEERING

The undergraduate curricula in engineering are comprised of four major segments. The first three segments are common to all four engineering options, i.e. the Civil Engineering Option, the Electrical Engineering Option, the Mechanical Engineering Option and the Engineering Science Option as well as the Architectural Engineering Emphasis within the Civil Engineering Option.

The first segment consists of foundation courses in mathematics and the physical sciences. There are a total of 33 units in this segment. However, students electing the Civil Engineering Option are required to take 32 units. The second segment consists of 24 units of engineer core courses. The third segment contains 33 units of general education courses in the arts, humanities, social sciences, biological sciences and other related areas.

The fourth segment contains a sequence of courses in one of the four options which includes a combination of required courses and adviser approved technical elective courses. The number of units in this segment is not the same for each of the four engineering options but varies from 45 to 48 units. Students must meet with their academic adviser to prepare an approved study plan of technical elective courses prior to taking any elective courses. Undergraduate students are required to meet with their academic adviser every semester during the first year and once a year thereafter. Students are strongly encouraged to see their academic adviser frequently. concepts, 229175 supposound, or noiseO.

All courses taken in fulfillment of the requirements for the Bachelor of Science Degree in Engineering must be taken for a letter grade, i.e. under grade Option 1. All mathematics and physical science courses required for the degree must be completed with at least a "C" grade to count as prerequisite courses or as credit towards the degree. Graduate courses are not open to undergraduate students without specific approval of the appropriate depart-The Bachelor of Science Degree in Engineering, wil rish trem

Math and Science Foundation Courses

Mathematics 150A Analytic Geometry and Calculus (4)

Mathematics 150B Analytic Geometry and Calculus (4)

Mathematics 250A Intermediate Calculus (4)

Mathematics 250B Introduction to Linear Algebra & Differential Equations (4) but a variable to asserting to use

Chemistry 120A General Chemistry (5)

Physics 225A, 225AL Fundamental Physics,

Mechanics & Lab (4) of molecular distribution of the Mechanics & Mechanics & Mechanic

Physics 225B, 225BL Fundamental Physics, Electricity

& Magnetism & Lab (4)

Physics 225C, 225CL Fundamental Physics, Waves, Optics, and Modern Physics & Lab (4) (required in the Electrical, Mechanical and Engineering Science Options)

or Chemistry 125 (3) (required in the Civil Engineering Option).

Engineering Core Courses and advision to househoas

All undergraduate engineering students are required to complete the following 24 units of engineering core courses regardless of the particular Option selected by the student.

EG-ME 102 Graphical Communications (3)

EG-CE 201 Statics (3) and midniw asserged agreement

EG-EE 203 Electrical Circuits (3)

EG-GN 205 Digital Computation (3)

EG-CE 302 Dynamics (3) and approval of the

EG-ME 304 Thermodynamics (3)

EG-ME 306A Unified Laboratory (1)

EG-GN 308 Engineering Analysis (3)

EG-GN 314 Engineering Economy (2)

General Education Program for B.S. in Engineering

Basic Subjects (9 units)

- A. Oral Communication (3 units) SPCOM 100 or SPCOM 102
- Written Communication (ENGL 101)
- C. Critical Thinking (3 units) ENGL 103, PHIL 200, PHIL 210, PSYCH 110, READ 290 or SPCOM 235

II. Historical and Cultural Foundations (9 units)

- A. Development of Civilization (3 units) HIST 110A or HIST 110B
- B. American History, Institutions and Values
 - 1. American History (3 units) AFRO 190, AMST 201, CHIC 190, HIST 180 or HIST 190
- C. Government (POLSC 100)

III. Disciplinary Core Courses (25 units)

- A. Mathematics and Natural Sciences (16 units)
 - 1. Physical Science CHEM 120A, PHYS 225A and PHYS 225AL.
 - 2. Biological Science (BIOL 101)
 - 4. Mathematics (MATH 150A)
- B. Arts and Humanities (6 units)
 - 1. Introduction to the Arts (3 units) ART 101, 201A, 201B, 311, 312, DANCE 101, MUSIC 100, 101, THEAT 100 or 175
 - 2. Introduction to Humanities (3 units, see Plan "B" for listing of courses)
- C. Social Sciences (3 units from EG-GN 314 and EG-CE 495 or EG-EE 370 or EG-ME 370)

IV. Implications, Explorations and Life-Long Learning (one course must satisfy cultural diversity requirement, i.e. an """ course)

- A. Implications and Exploration (6 units)
 - 1. Arts or Humanities (3 units, see Plan "B" listing, must be upper division)
 - 2. Social Science (3 units, see Plan "B" listing, must be upper division)

Note: In order to meet the ABET accreditation requirement for some depth in either the Arts, Humanities or Social Sciences, at least two courses must be selected from the same department for the above selection of courses in sections I.C., II.B.2, III.B.1, III.B.2, IV.A.1 or IV.A.2.

ENGINEERING SCIENCE OPTION

The Engineering Science Option program is an interdisciplinary program designed for those students who are interested in a broad education in the basic concepts and principles of engineering, rather than an in-depth study in one particular engineering discipline such as civil, electrical or mechanical engineering. The Option provides a flexible interdisciplinary program in engineering with ample opportunity to develop a study plan which meets specific career goals. Courses can be selected from engineering, computer science, the physical sciences, mathematics and business to meet a special and specific engineering science objective.

Students who wish to be considered for an undergraduate or graduate engineering science program should meet with the Associate Dean of the School of Engineering and Computer Science. The Associate Dean may serve as the academic adviser to the student or one or more advisers from the engineering, computer science, physical sciences, mathematics or the business faculties may be selected if appropriate.

Bachelor of Science in Engineering Option in **Engineering Science**

The degree consist of 33 units of mathematics and physical science courses, 24 units of engineering core courses, 33 units of general education courses and 45 units of adviser approved elective courses for a total of 135 units. The adviser approved electives must include a component of engineering design courses and engineering laboratory courses.

Master of Science in Engineering Option in Engineering Science

The degree consist of 30 units of adviser approved 400 and 500 level courses. At least half the units required for the degree must be graduate 500 level courses. A segment of the 30 units must include a math-oriented course as well as EG-GN 403 Computer Methods in Numerical Analysis (3).

INTERNSHIPS IN ENGINEERING

Internships for Engineering provide practical work experiences which integrates with and supplements the student's academic studies. Internship jobs are coordinated through the Center for Internships and Cooperative Education. In order to participate in this program a student must register for EG-GN 495 Professional Practice (1) for each semester of internship participation.

General Engineering Courses

General engineering courses are courses whose academic content is not specific for any of the engineering disciplines. The courses are not administered by any one particular department. General engineering courses are taught by faculty from all three of the engineering departments.

Although there is no degree program in general engineering, new students who do not indicate a specific engineering option will be classified as a general engineering major. The Associate Dean of the School of Engineering and Computer Science serves as the academic adviser to all general engineering students. General engineering students should make every effort to declare a major in one of the four engineering options after one or two semesters of course work.

205 Digital Computation (3)

Prerequisite: college algebra or three years of high school mathematics including a second course in algebra. Computers and their numerical applications. Elementary FORTRAN programming language, digital computation methods in statistics and solving algebraic equations.

308 Engineering Analysis (3)

Prerequisites: Physics 225B, Math 250B or equivalent. Fundamentals and engineering applications of Fourier series, Fourier transforms, Laplace transforms, complex analysis, vector analysis; engineering applications.

314 Engineering Economy (2)

Prerequisite: upper-division standing in engineering. Development, evaluation and presentation of alternatives for engineering systems and projects using principles of engineering economy and cost benefit analysis.

403 Computer Methods in Numerical Analysis (3)

Prerequisites: Math 250B and EG-GN 205 or equivalent. The use of numerical methods and digital computers in the solution of algebraic, transcendental, simultaneous, ordinary and partial differential equations.

495 Professional Practice (1)

Prerequisite: upper-division standing in engineering. Professional engineering work in industry or government. Written report required. May be repeated for credit. Applicable towards a B.S. in Engineering. Not for credit in the graduate program.

Department of Civil Engineering education in the basic concepts and principles of engineering

Department Chair: Dindial Ramsamooj Department Office: Engineering 100D

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Dario Aristizabal, Richard Brock, Pinaki Chakrabarti, George Chiang, Riad Elhaj, George Lin, William Litle, Chandrasekhar Putcha, Dindial Ramsamooj, Mahadeva Venkatesan

Advisers

Undergraduate adviser: George Lin golfangaro Disapped Pos Graduate adviser: Dindial Ramsamooj

INTRODUCTION MANAGEMENT AND THE PROPERTY OF TH

The civil engineering program at CSUF includes the fields of structural, geotechnical, hydraulic, environmental, construction, and architectural engineering. Modern civil engineering practices rely heavily upon computer-aided analysis and design, and students at CSUF use both microcomputers and the mainframe computer. We also an analysis and a second se transforms, Laplace transforms, complex analysis, vertos agaly,

"Structural" engineers are designers of buildings, bridges, dams, power plants, offshore structures and many other kinds of systems. These engineers determine, usually by computer analysis, the forces that a structure must resist, the appropriate materials, and the possible structural types. Structural engineers usually work with a team that includes architects, mechanical and electrical engineers, contractors, and the owner of the project.

"Geotechnical" engineers analyze the properties of soils and rocks that affect the behavior of structures. They evaluate the potential settlements of buildings, the stability of slopes and fills, and the effects of earthquakes. They take part in the design and construction of foundations, including those of offshore platforms, tunnels and dams. Received Bright Bassissand 204

"Hydraulic" engineers deal with all aspects of the physical control of water. They work to prevent floods, develop irrigation projects, design hydroelectric power systems, manage and train rivers, and predict water runoff.

"Architectural" engineering is a subtle combination of the art of architecture and the science of engineering. The architect conceives of structures as an art form, and relies upon the structural engineer to translate his concepts of beauty into structural reality. The architectural engineer has the training to interact with both architects and engineers or to work on his own in designing structures that combine both strength and beauty.



The Engineering Science Option program is an intentise

which integrates with and supplements the student's academic in this program a student must register for EG-GN 495 Profes-sional Eractice (1) for each semester of interesting participation.

"Construction engineering and management" is a wide ranging specialization that uses both technical and management skills to plan and build public and private projects and commercial developments. Sindents meeting the following additional requirements

"Environmental engineering" is concerned with the design and supervision of systems to provide safe drinking water and to prevent and control pollution in water, in the air, on the land, and in the groundwater.

BACHELOR OF SCIENCE IN ENGINEERING OPTION IN CIVIL ENGINEERING

Mathematics and science foundation courses (32 units) See information listed under "Departments of Engineering" section.

Engineering core courses (24 units)

See information listed under "Departments of Engineering" section. "most demonstrate withing ability completing one section.

Upper Division Writing Requirement

In addition to the Examination in Writing Proficiency which is to be taken as soon as 60 units are completed, the following courses are required and must be passed with a grade of C or better.

EG-ME 306A	Unified Laboratory (1) avisos a doide
EG-CE 324L	Soil Mechanics Laboratory (1)
EG-CE 325L	Structural Analysis Laboratory (1)
EG-CE 377	Civil Engineering Materials Lab (1)
EG-CE 428L	Engineering Hydraulics Lab (1)
EG-CE 495	Civil Engineering Professional Practice (1)

The laboratory reports are graded on English composition as well

Required Courses for the Option in 19119d to 20 8 94

Civil Engin	eering (37 units)
EG-EE 203L	Electric Circuits Laboratory (1)
EG-CE 214	Engineering Surveying (2)
EG-CE 214L	Engineering Surveying Laboratory (1)
EG-CE 301	Mechanics of Materials (3)
EG-CE 324	C : 1 M - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
EG-CE 324L	Soil Mechanics Laboratory (1)
EG-CE 325	Structural Analysis (3)
EG-CE 325L	Structural Analysis Laboratory (1)
EG-CE 330	Computer Applications in Civil Engineering (3)
EG-CE 377	Civil Engineering Materials Lab (1)
EG-CE 408	Reinforced Concrete Design (3)
EG-CE 418	Foundation Design (3)
EG-CE 428	Engineering Hydraulics (3)
COMPANY A STATE OF THE PARTY OF	Engineering Hydraulics Lab (1)
CONTRACTOR AND A STATE OF THE S	Structural Steel Design (3)
EG-CE 494	Design of Civil Engineering Structures (3)
EG-CE 494L	Civil Engineering Structural Laboratory (1)
	EG-EE 203L EG-CE 214L EG-CE 301 EG-CE 324 EG-CE 325 EG-CE 325L EG-CE 330 EG-CE 377 EG-CE 408 EG-CE 418 EG-CE 428 EG-CE 428L EG-CE 430 EG-CE 494

EG-CE 495 Civil Engineering Professional Practice (1)

Technical Electives for Option in Civil Engineering (8 units)

Before enrolling in any elective course approval of the adviser must be obtained. Technical Electives must include a course in environmental engineering or 465 or 468.

EG-CE 401	Reliability Analysis and Design (3)
EG-CE 411	Structural Dynamics (3)
EG-CE 431L	Advanced Structural Laboratory (1)
EG-CE 432	Computer-Aided-Design in Structural
	Engineering (3)
EG-CE 435	Design of Hydraulic Structures (3)
EG-CE 436	Engineering Hydrology (3)
EG-CE 465	Planning and Control of Engineering
	Construction Projects (3)
EG-CE 468	Engineering Construction (3)
EG-CE 493	Structural Systems for Buildings (3)
EG-CE 497	Senior Projects (1-3) nomentous ban dolla
EG-CE 499	Independent Study (1-3)
	issio e Requirements

ARCHITECTURAL ENGINEERING EMPHASIS

Mathematics and Science Courses (32 units)

Engineering Core Courses (24 units)

Required Civil Engineering Core (29 units) EG-EE 203L Electric Circuits Laboratory (1)

LU LL LUJL	Dicetife Circuits Edeboratory (1)
EG-CE 214	Engineering Surveying (2)
EG-CE 214L	Engineering Surveying Laboratory (1)
EG-CE 301	Mechanics of Materials (3)
EG-CE 324	Soil Mechanics (3)
EG-CE 324L	Soil Mechanics Laboratory (1)
EG-CE 325	Structural Analysis (3)
EG-CE 325L	Structural Analysis Laboratory (1)
EG-CE 377	Civil Engineering Materials Laboratory (1)
EG-CE 408	Reinforced Concrete Design (3)
EG-CE 418	Foundation Design (3)
EG-CE 430	Structural Steel Design (3)
EG-CE 494	Design of Civil Engineering Structures (3)
EG-CE 495	Civil Engineering Professional Practice (1)

Core Courses for the Emphasis in Architectural Engineering (13 units)

EG-CE 431L	Advanced Structural Laboratory (1)
	Computer-Aided-Design in Structural
	Engineering (3)
EG-CE 493	Structural Systems for Buildings (3)
EG-CE 496	Architectural Design (3)
Course in en	vironmental engineering (3)

Technical Electives for the Emphasis in Architectural

Engineerin	ng (3 units) reduces requirement aggle sholedand
	Planning and Control of Engineering Construction Projects (3)
	Engineering Construction (3)

MASTER OF SCIENCE IN ENGINEERING OPTION IN CIVIL ENGINEERING/ENGINEERING **MECHANICS**

The Master of Science degree in Engineering with an option in civil engineering is intended to meet the needs of students who wish to prepare for careers in areas such as project management, design and analysis of complex systems (including structures such as tall buildings and bridges), consulting, and research. This program also provides excellent preparation for doctoral studies.

The program provides advanced study within the area of civil engineering and allows students to elect coursework, with adviser approval, in the areas of structural, hydraulics/hydrology, geotechnical, engineering mechanics, or construction engineering and management.

Graduates from the M.S. program have obtained employment in various fields including manufacturing, construction, business, education and government.

Admission Requirements

To qualify for admission in conditionally classified standing, applicants must meet the following University and departmental requirements:

- 1. Bachelor's degree from a regionally accredited institution.
- 2. Bachelor's degree in civil engineering from an institution accredited by the Accreditation Board of Engineering and Technology (ABET).
- 3. Minimum grade-point-average of 2.5 in the last 60 semester units.
- 4. Good standing at the last institution attended.

Students meeting the above requirements will be admitted to the graduate program in civil engineering and will be advanced to classified standing immediately after filing an adviser-approved study plan in the civil engineering departmental office.

Students not meeting the above requirements may be admitted at the discretion of the department chair and will be required to take an additional six or more units of adviser-approved prerequisite coursework. The student must demonstrate potential for graduate study by earning a G.P.A. of 3.0 or higher in these prerequisite courses.

Any student entering the Master of Science degree program without a B.S. in Civil Engineering also will be required to complete deficiency courses prior to beginning coursework for the master's degree.

Graduate and postbaccalaureate students who do not possess a bachelor's degree from a postsecondary institution where English is the principal language of instruction must receive a minimum score of 550 on the Test of English as a Foreign Language (TOEFL).

The Civil Engineering department does not require the Graduate Record Exam (GRE).

Classified Standing

Students meeting the following additional requirements will be advanced to classified standing and are eligible to take graduate courses for which they are qualified.

- 1. Completion of all deficiency work specified by the graduate adviser with a grade of "B" or better.
- 2. Development of an approved study plan. Before completing nine units at CSUF toward the M.S. degree, the student must meet with an adviser for preparation of a study plan which must be approved by the department chair and Dean of Graduate Studies.
- 3. Fulfillment of the University Writing requirement prior to completing nine units at CSUF toward the M.S. degree. Students must demonstrate writing ability commensurate with the baccalaureate degree by successfully completing one of the following:
 - A. An upper-division writing requirement at any CSU campus
 - B. An upper-division writing course from another university which is equivalent to a course satisfying the CSUF Upper-Division Writing Requirement. Equivalency must be certified by the department chair
 - C. Cal State Fullerton Examination in Writing Proficiency (EWP)
 - D. A CSUF upper-division or graduate level course that is certified as meeting the writing requirement and is approved by the department chair. The grade received must be a C or better.

Study Plan

The study plan consists of a minimum of 30 units of adviserapproved upper-division or graduate level course work which must be completed with an overall grade-point average of at least 3.0. At least half the units required for the degree must be in approved graduate (500-level) courses.

Required Courses (6 units)

EG-GN 403 Computer Methods in Numerical Analysis (3) Additional adviser-approved math-oriented course (3)

Concentration Courses (15 units) Deposition 804 30404

A student is required to select a minimum of 15 units in Civil Engineering. These units may be 400-level and 500-level courses and are selected according to the student's areas of interest. Course work may focus on the following areas: Engineering Mechanics, Geotechnical Engineering, Hydraulics/Hydrology, Structural Engineering, and Construction Engineering and Management.

Other Courses (9 units)

Elective units should be taken in Civil Engineering or a related engineering field and are subject to adviser approval.

Exam/Thesis/Project Option

Subject to approval by the department chair, students may select one of the following options for final review by a department committee: Manufaction against large 12 to 12 to

Oral comprehensive examination or EG-CE 598 Thesis (6 units) or EG-CE 597 Project (3 units)

Advancement to Candidacy (C) too look of unit configuration of the

Advancement to candidacy and completion of requirements for the degree include:

- 1. Filing a graduation check prior to the beginning of the final semester (deadlines are listed in the class schedule).
- 2. Completion of study plan course work with a minimum overall grade-point-average of 3.0.
- 3. Successful completion of a comprehensive examination or oral defense of a thesis or project.
- 4. Recommendation by the Civil Engineering department faculty and Dean of Graduate Studies.

Civil Engineering Courses

Prerequisites: Math 150B and Physics 225A. Vectorial treatment of statics of particles and rigid bodies. Freebody diagrams. Applications to problems of equilibrium (two and three dimensions) of structural and mechanical force systems. Centroids and moments of inertia. (CAN ENGR 8)

214 Engineering Surveying (2)

Prerequisite: EG-ME 102; corequisite: EG-CE 214L. Measurement of horizontal distance, difference in elevation, and angles. Analyses and adjustments for systematic and random measurement errors. Traverse surveys and computations. Horizontal and vertical curves. Principles of stadia. Topographic surveys. Earthwork.

214L Engineering Surveying Laboratory (1)

Corequisite: EG-CE 214. Field practice of measurement of distance with a chain and stadia, horizontal and vertical angles with a theodolite, closed traverse, differential leveling, horizontal and vertical curve layout and locating stakes for highway construction. (3 hours laboratory)

301 Mechanics of Materials (3)

Prerequisites: Math 250A and EG-CE 201. Stress and deformation analysis for axial load, torsion, flexure, and combined forces. Analysis of simple statically indeterminate structures. Stability of columns. Strain energy & ultimate resistance. Interactive relationships between analysis & design.

302 Dynamics (3)

Prerequisites: Math 250A and EG-CE 201. Kinematics and kinetics of particles and rigid bodies, Newton's laws, work and energy, impulse and momentum. Solution of problems using vector approach.

324 Soil Mechanics (3)

Prerequisite: EG-CE 301. Soil properties and soil action as related to problems encountered in engineering structures; consolidation, shear strength, stability and lateral earth pressures.

324L Soil Mechanics Laboratory (1)

Prerequisite: English 101. Corequisite: EG-CE 324. Behavior and properties of soils. Application to foundation design, liquefaction and seepage.

325 Structural Analysis (3)

Prerequisite: EG-CE 301. Analysis of forces and displacements in statically determinate and indeterminate elastic structures by force and displacement methods. Approximate methods of analysis. Influence lines and applications. Matrix formulation of structural analysis and computer applications.

325L Structural Analysis Laboratory (1)

Prerequisite: English 101. Corequisite: EG-CE 325. Principles of model analysis and similitude. Influence lines for reactive and internal forces; generalized displacements of statically indeterminate structures. Nonprismatic members. (3 hours laboratory)

330 Computer Applications in Civil Engineering (3)

Prerequisites: EG-GN 205, EG-CE 214, EG-CE 324 and EG-CE 325. Application of computer programming to the solution of problems in various branches of Civil Engineering.

332 Mechanical and Electrical Systems for Buildings (3)

Prerequisites: EG-EE 203 and EG-ME 304. Energy Overview: thermal control, water and waste, fire protection, electricity, illumination, signal equipment, transportation, acoustics.

377 Civil Engineering Materials Laboratory (1)

Corequisite: EG-CE 324. The behavior and properties of soil, asphalt concrete, and cement concrete. Structural design of highway pavements. (3 hours laboratory)

401 Reliability Analysis and Design (3)

Prerequisites: EG-CE 301. Application of probabilistic concepts to Civil Engineering structures. Various methods of quantifying reliability-numerical methods and Monte Carlo methods. Application to tension elements, simply-supported and cantilever beams, columns and portal frames.

408 Reinforced Concrete Design (3)

Prerequisites: EG-CE 325. Corequisite: EG-CE 377. Design for bending, shear, axial forces, combined loading. Design of beams, columns, slabs for ultimate strength and serviceability requirements; alternate design method. Prestressed concrete design. Design project of buildings or bridges to standards of professional practice.

410 Applied Fracture Mechanics (3)

Prerequisites: EG-CE 325, EG-GN 308. Principles of Fracture Mechanics. Numerical fracture modelling. Applications in buildings, bridges, nuclear power plants, geomechanics and pavement design.

411 Structural Dynamics (3)

Prerequisites: EG-CE 325 and EG-GN 308. Free and forced vibrations of discrete and continuous systems. Matrix formulation and normal coordinates analysis. Response of structures to impulse and earthquake loads.

418 Foundation Design (3)

Prerequisites: EG-CE 324 and 408. Design of footings and retaining walls. Mat and piled foundations for structures. Design project to standards of professional practice.

428 Engineering Hydraulics (3)

Prerequisite: EG-CE 302. Incompressible fluid flow in closed circuits and open channels. Hydrostatics, energy, and hydraulic grade lines. Momentum, friction formulas, pipelines, pumps, pipeline networks, uniform flow, critical flow, hydraulic jump, specific energy, nonuniform flow, and water surface profiles.

428L Engineering Hydraulics Laboratory (1)

Prerequisite: English 101. Corequisite: EG-CE 428. Introduction to experimental hydraulics in open channel and pipe flows including measurements of discharge, depth, velocity, force and friction coefficients. Hydraulic model laws and report writing. (3 hours laboratory)

430 Structural Steel Design (3)

Prerequisite: EG-CE 325. Design for bending, torsion, shear, axial forces, combined loadings. Design of built-up girders, composite construction. Design of shear and moment connections. Design project of buildings or bridges to standards of professional practice.

431L Advanced Structural Laboratory (1)

Prerequisites: EG-CE 324L, 325L, and 408. Fundamentals of earthquake engineering and soil structure interaction; prestessed concrete segmental method of construction; design of lateral bracing for model buildings. (3 hours laboratory)

432 Computer-Aided-Design in Structural Engineering (3)

Prerequisites: EG-GN 205, EG-CE 325 and EG-CE 408. Application of computer-aided design techniques with automated graphics to the design of civil engineering structures. Design project to the standards of professional practice (2 hours lecture, 3 hours laboratory).

435 Design of Hydraulic Structures (3)

Prerequisite: EG-CE 428. Applications of hydraulic principles to design of various structures including spillways, energy dissipators, outlet works, storm drains, culverts and water distribution systems. Use of computers in design process.

436 Engineering Hydrology (3)

Prerequisite: EG-CE 428. Hydrologic cycle with applications to hydrologic design of engineering structures. Rainfall, stream flow, ground water, surface runoff, hydrographs, flood routing, frequency distributions and design hydrographs.

454 Professional Practice for Architectural Engineers (1)

Prerequisite: senior standing in Architectural Engineering. Discussion of architectural engineering as a profession and the architectural engineer as a professional. Career opportunities in private sectors and in government. Office and field practice. Professional growth and development. Project management. Business management and opportunities.

456 Design of Building Foundations (3) home of box vi

Prerequisites: EG-CE 324 and 408. Design of footings, retaining walls, mat, pile and caisson foundations for buildings. Expansive and collapsible soils. Design project to the standards of professional practice.

457 Design of Concrete Buildings (3)

Prerequisites: EG-CE 324 and 377. The elements of reinforced concrete and prestressed concrete design for buildings. Design of beams, columns, slabs and footings. Design project to the standards of professional practice.

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465 Planning and Control of Engineering Construction Projects (3)

Prerequisites: senior standing in Civil Engineering. Overview of construction project management; construction scheduling fundamentals: bar charts, CPM, PERT; schedule control: manual vs. computer systems, reports, schedule maintenance; cost control: code of accounts, control base, budgets, forecasting, reports, computer systems; applications in construction projects.

468 Engineering Construction (3) Prerequisites: EG-CE 408; Corequisite 418. Engineering construction planning equipment and methods. Construction management. Critical path method. Construction of buildings, bridges, highways, foundations and dams.

493 Structural Systems for Buildings (3)

Prerequisites: EG-CE 408 and 430. Corequisite: EG-CE 418. Building structural systems and their behavior under loads. Foundation systems. Roof, floor, wall systems. Construction and cost considerations. Design project to standards of professional practice. (2 hours lecture and 3 hours laboratory.)

494 Design of Civil Engineering Structures (3)

Prerequisites: EG-CE 408 and 430. Corequisite: EG-CE 418. Timber, reinforced masonry, reinforced concrete and steel design. Uniform Building Code, design of buildings. Design projects to standards of professional practice. (2 hour lectures; 2 hour laboratory)

494L Civil Engineering Structural Laboratory (1)

Corequisite: EG-CE 494. Design of bridges according to AASHTO code. Design project to the standards of professional practice. (3 hours laboratory)

495 Civil Engineering Professional Practice (1)

Prerequisite: senior standing. Discussion of civil engineering as a profession and the civil engineer as a professional. Career opportunities in private sectors and government. Office and field practice. Professional growth and development. Project management. Business management and opportunities.

496 Architectural Design (3)

Prerequisites: EG-CE 408 and 432. Systems based design process: aesthetic, functional, environmental, and behavioral aspects. Urban planning and design. Case studies. Architectural design project to the standards of professional practice.

497 Senior Projects (1-3)

Prerequisites: senior standing in engineering and formal approval by adviser and department chair. Independent design projects. Formal report to be submitted after completion of project work.

499 Independent Study (1-3)

Prerequisites: senior standing in engineering and formal approval by adviser and department chair. Special topics in civil engineering. Formal report to be submitted after completion of independent study.

509 Theory of Plates and Shells (3)

Prerequisite: EG-ME 438. Theory of thin plates subjected to transverse loads. Analysis of plates of circular, rectangular and other shapes. Theory of thin shells. Shells of revolution. Shells of translation.

510 The Finite Element Method (3)

Prerequisites: EG-CE 517 and 533. Formulation of finite elements for analysis of plane stress and strain problems, axisymmetric bodies, plates and shells. Conforming and non-conforming shape functions. Computer applications to complex structural systems under static and dynamic loads.

517 Theory of Elasticity (3)

Prerequisite: EG-ME 438. Analysis of stress and strain. Equations of elasticity. Extension, torsion and flexure of beams. Two-dimensional elastostatic problems. Variational methods and energy theorems. Elementary three-dimensional elastostatic problems. Introduction to thermoelasticity and wave propagation.

525 Thermoelasticity (3)

Prerequisite: EG-ME 438. Basic theory of thermoelasticity, heat conduction, thermal stress analysis for elastic systems, thermal stress analysis for inelastic systems. (Cross-listed with EG-ME 525)

532 Earthquake Engineering (3)

Prerequisites: EG-CE 411 and 533. Earthquake motions; response spectra; computational methods and computer applications for response of structural systems. Energy absorption capacity of materials and structural components. Soil structure interaction. Seismic design and evaluation of current building codes.

533 Matrix Methods of Structural Analysis (3)

Prerequisites: EG-CE 325 and EG-GN 403. Matrix formulation of structural analysis using the direct stiffness approach. Computer aided analysis of complex structural systems under static and dynamic loads. Stability analysis. Introduction to the finite element method.

534 Construction Methods and Equipment for Buildings (3)

Prerequisites: EG-CE 408 and 430. Methods and equipment for construction of high-rise buildings, space structures, folded plates, shells, and suspension systems. Modularization. Quality control and construction failures.

537 Groundwater and Seepage (3)

Prerequisite: EG-CE 436. Equations governing flow of liquid in porous media. Seepage through dams and under structures, flow in confined and unconfined aquifers, steady and unsteady flow, well fields, flow nets, computer solutions, sea water intrusion, recharge, groundwater pollution.

538 Construction Methods and Equipment for Heavy Construction Engineering (3)

Prerequisites: EG-CE 408 and 418. Methods and equipment for construction of foundations, highways, airfields, bridges, ports, harbors, dams, nuclear power plants and industrial facilities. Quality control and construction failures.

539 Preconstruction Design Evaluation (3)

Prerequisites: EG-CE 534 and 538. Cost benefit, preconstruction scheduling, and constructibility modifications in design, specifications and construction methods. Value Engineering.

544 Advanced Foundation Engineering (3)

Prerequisites: EG-CE 418. Beam on elastic foundations. Raft foundations. Retaining walls. Pile groups and pier foundations. Soil structure interaction. Foundations on expansive soils.

548 Soil Dynamics and Foundation Engineering (3)

Prerequisites: EG-CE 411, 418, and EG-ME 438. Wave propagation in soils. Blast effects. Analysis and design of dynamically loaded foundations. Earthquake design of dams and foundations of structures.

549 Theory of Elastic Stability (3)

Prerequisite: EG-CE 509. Critical buckling loads of columns, beam-columns, frames, plates, and shells. Lateral stability of beams. Torsional buckling of open wall sections.

550 Major Commercial Project Development and Management (3)

Prerequisite: Management 444. Process of major commercial project development; macroeconomics aspects; project initiation and implementation, construction management systems, schedule, cost and quality control, control of long-lead equipment and materials, construction disputes and claims, case studies.

562 Space Structures (3)

Prerequisite: EG-CE 411, 408, 430, 510. Development of innovative space structures and systems. Constitutive properties of materials. Structural analysis of large-scale flexible structures. Deflection and vibration control. Applications in aerospace structures, offshore structures, high-rise buildings, public arenas and long-span bridges.

563 Design of Prestressed Concrete Structures (3)

Prerequisite: EG-CE 408. Structural behavior and design of prestressed concrete elements and systems - simple beams, continuous beams, frames, and slabs under combined axial loads and flexure. Design project to standards of professional practice.

566 Design of Tall Buildings (4)

Prerequisite: EG-CE 408, 533. Characteristics, design criteria and safety provisions of tall buildings. Selection, optimization and analysis of framing systems. Design standards, constructability, wind and seismic considerations. Design project to the standards of professional practice.

575 Expert Systems in Construction Engineering (3)

Prerequisite: EG-CE 330. Expert systems and artificial intelligence techniques in construction engineering; expert systems for: safety evaluation of structures during construction, site selection, construction decision making, and construction schedule analysis; project monitoring; claims and disputes. (violetodal

494L Givil-Ragineering Structural Laboratory (1) 597 Project (1-3)

Prerequisites: classified graduate status and formal approval of Civil Engineering Graduate Committee, graduate adviser and department chair.

598 Thesis (1-6)

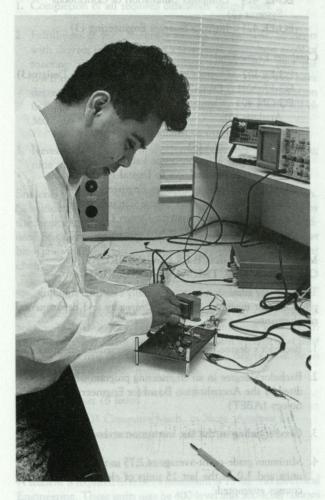
Prerequisites: classified graduate status and formal approval of Civil Engineering Graduate Committee, graduate adviser, and department chair. (Max. of 3 units per semester.)

599 Independent Graduate Research (1-3)

Prerequisites: classified graduate status and formal approval of Civil Engineering Graduate Committee, graduate adviser, and department chair. (2016) 2017 The sense of t

computer systems, applications in construction profitoidaleners

Department of Electrical Engineering



Department Chair: Young D. Kwon Associate Chair: George Cohn Department Office: Engineering 100A

Faculty

Susamma Barua, Magsood Ahmed Chaudhry, Ning Chen, Hwang Chung, John Clymer, George Cohn, Shahin Ghazanshahi, Mohinder Grewal, Karim Hamidian, Hassan Hamidi-Hashemi, Eugene Hunt, Harriet Kagiwada, Jack Kemmerly, Young Kwon, Allan McDonald, Rao Nuthalapati, Jae Park, Chennareddy Reddy, Mostafa Shiva, Richard Shubert, Srini Srinivasan, Fleur Tehrani, Jesus Tuazon

Undergraduate program advisers: Karim Hamidian, Jesus Tuazon, Chennareddy Reddy Graduate program coordinator: Jesus Tuazon

All department full-time faculty serve as advisers; see electrical engineering bulletin board for names, office hours and room numbers.

INTRODUCTION

The Bachelor of Science degree in Engineering with an option in Electical Engineering is accredited by the Accreditation Board for Engineering and Technology. The electrical engineering program provides the students with the basic and advanced topics in the areas of design and analysis of digital and analog electronic circuits, design and analysis of computer architecture, microprocessors, communication networks and control systems. This program develops an ability to apply the design and analysis knowledge to the practice of electrical engineering in an effective and professional manner. This knowledge can be applied to various engineering practices in aerospace, computer, electrical, electronics and other applied fields.

BACHELOR OF SCIENCE IN ENGINEERING OPTION IN ELECTRICAL ENGINEERING

See "Departments of Engineering" for requirements in mathematics and science foundation courses (33 units), engineering core courses (24 units) and general education coursework.

Upper-Division Writing Requirement

In addition to the Examination in Writing Proficiency (EWP), all of the following courses are required to fulfill the upperdivision English writing requirement:

Unified Laboratory (1) EG-ME 306A EG-EE 310L Electronic Circuits Laboratory (2) EG-EE 313L Machine and Analog Computer Laboratory (1)

EG-EE 384 Intro to Electronic Design (1)

EG-EE 385 Electrical Engineering Design Projects
Laboratory (2)

or EG-EE 307L Digital Computer Design Lab (3) in lieu of EG-EE 384 and 385.

Written work for these courses must meet the professional standards.

Required Courses for Option in Electrical Engineering (38 units)

Enrollment in these courses is limited to students who meet the prerequisites.

EG-EE 203L Electric Circuits Lab (1)

EG-EE 245 Computer Logic & Architecture (3)

EG-EE 245L Computer Logic and Arch Lab (2)

EG-EE 303 Electronics (3)

EG-EE 303L Electronics Lab (1)

EG-EE 309 Network Analysis (3)

EG-EE 310 Electronic Circuits (3)

EG-EE 310L Electronic Circuits Lab (2)

EG-EE 311 Field Theory and Transmission Lines (3)

EG-EE 313 Intro to Electromechanics (3)

EG-EE 313L Machine and Analog Computer Lab (1)

EG-EE 323 Engineering Probability and Statistics (3)

EG-EE 370 Sem in Electrical Engineering (1)

EG-EE 384 Intro to Electronic Design (1)

EG-EE 385 Electrical Engineering Design Projects Lab (2)

EG-EE 409 Introduction to Linear Systems (3)

EG-EE 445 Digital Electronics (3)

Technical Electives for Option in Electrical Engineering (7 units)

Before enrolling in any elective course, approval of the adviser must be obtained. At least two units of design content must be included.

Electronics: m universities of electronics and university of the processing of the p

EG-EE 404 Intro to Microprocessors and Microcomputers (3)

EG-EE 404L Microprocessor Laboratory (1)

EG-EE 410 Electro-Optical Systems (3)

EG-EE 442 Electronic Circuits (3)

EG-EE 445L Pulse and Digital Circuits Lab (2)

EG-EE 448 Digital Systems Design (3)

EG-EE 455 Solid State Electronics (3)

EG-EE 465 Introduction to VLSI Design (3)

Electronic Communications:

EG-EE 420 Introduction to Digital Filtering (3)

EG-EE 442 Electronic Circuits (3)

EG-EE 443 Electronic Communication Systems (3)

EG-EE 445L Pulse and Digital Circuits Lab (2)

EG-EE 448 Digital Systems Design (3)

Control Systems:

EG-EE 404 Intro to Microprocessors and Microcomputers (3)

EG-EE 416 Feedback Control Systems (3)

EG-EE 420 Introduction to Digital Filtering (3)

EG-EE 424 Computer Simulation of Continuous Systems (3)

EG-EE 425 Intro to Systems Engineering (3)

Computer Engineering:

EG-EE 307 Digital Computer Organization & Design (3)

EG-EE 307L Digital Computer Design Lab (3)

EG-GN 403 Computer Methods in Numerical Analysis (3)

EG-EE 404 Intro to Microprocessors and Microcomputers (3)

EG-EE 404L Microprocessor Lab (1)

EG-EE 420 Introduction to Digital Filtering (3)

EG-EE 425 Intro to Systems Engineering (3)

EG-EE 445L Pulse and Digital Circuits Lab (2)

EG-EE 448 Digital Systems Design (3)

EG-EE 465 Introduction to VLSI Design (3)

MASTER OF SCIENCE IN ENGINEERING OPTION IN ELECTRICAL ENGINEERING

To qualify for admission in conditionally classified standing, applicants must meet the following University and departmental requirements:

- 1. Bachelor's degree from a regionally accredited institution
- Bachelor's degree in an engineering program which is accredited by the Accreditation Board for Engineering and Technology (ABET)
- 3. Good standing at the last institution attended
- Minimum grade-point-average of 2.75 in the last 60 semester units and 3.0 in the last 15 units of electrical engineering courses attempted

Students with grade deficiencies, degrees from non-ABET accredited universities, or undergraduate majors other than Electrical Engineering may be considered for conditional admission. However, any deficiencies must be made up prior to advancing to classified standing and prior to beginning course work for the master's degree. Requirements for fulfilling deficiencies include a minimum of six units of adviser-approved course work. Deficiencies must be completed with at least a 3.0 grade-point average.

Each applicant file will be reviewed by the department graduate program adviser. Upon admission, the applicant is urged to make an appointment with the graduate program adviser. The program adviser will assign a faculty adviser based on the student's areas of interest and career objectives.

Classified Standing

A student who meets the above requirements for admission to conditionally classified standing may be granted classified standing contingent upon:

- 1. Completion of all required deficiency course work
- 2. Fulfillment of the University writing requirement. Students with degrees from American universities must show proof of meeting an upper-division writing requirement, pass the EWP, or complete ENGLISH 301 or 360. Students who have degrees from foreign universities must pass the Examination in Writing Proficiency (EWP) or complete ENGLISH 301 or 360 with a grade of "C" or better.
- 3. Development and approval of a study plan prior to completing nine units toward the 30-unit degree requirements

Students must meet with a faculty adviser to set up a study plan. Classification is not granted until the study plan is approved by the faculty adviser, the department chair, and the Dean of Graduate Studies. Any subsequent changes to the study plan must have prior written approval by the faculty adviser and department chair.

Study Plan

The study plan consists of a minimum of 30 units adviserapproved upper-division and graduate level course work which must be completed with an overall grade-point average of at least 3.0. At least half the units required for the degree must be in approved graduate (500-level) courses.

Required Courses (6 units)

EG-GN 403 Computer Meth. in Num. Analysis (3) Additional adviser-approved math-oriented course (3)

Concentration Courses (15 units)

A student is required to select a minimum of 15 units in Electrical Engineering. These units may be 400-level and 500-level courses and are selected according to the student's area of interest. Course work may focus on the following areas: Computer Engineering, Control Systems, Communications Systems/Signal Processing, Microelectronics and Circuit Theory, Electromagnetic Field Theory and Application, and Systems Engineering.

Other Courses (9 units)

Elective units should be taken in Electrical Engineering or a related engineering field and are subject to adviser's approval.

Exam/Thesis/Project Option

Subject to approval by the faculty adviser, students may select one of the following options for final review by the department graduate committee:

Satisfactory completion of a final oral comprehensive examination

or EG-EE 598 Thesis (6 units)

or EG-EE 597 Project (3 units)

A typed draft of the thesis or project report must be submitted to the student's thesis or project committee no later than four weeks prior to the last day of the semester in which the oral defense of the thesis or project report is scheduled.

The thesis or project committee consists of a minimum of three members of the Electrical Engineering faculty. The thesis should cover original research and be prepared according to the university guidelines. Committee review for the project will be directed in part toward defense of the project report and in part toward an oral examination related to course work. Guidelines for the preparation of theses and formal reports are available in the Electrical Engineering departmental office and the university Graduate Studies office.

Students requesting course work as an independent study (EG-EE 599) must complete an independent study application form and submit it for approval to the supervising faculty member and department chair prior to the semester in which the course work is to begin.

Advancement to Candidacy

Advancement to candidacy requires that the student file a graduation check prior to the beginning of the final semester (see class schedule for deadlines). Completion of requirements for the degree include a minimum GPA of 3.0 on all study plan course work, successful completion of a comprehensive examination or oral defense of a thesis or project, and recommendation by the Electrical Engineering faculty and Dean of Graduate Studies.

MASTER OF SCIENCE IN ENGINEERING OPTION IN SYSTEMS ENGINEERING

Students seeking this option must meet the same requirements as the Option in Electrical Engineering. In addition students selecting the systems engineering option will be required to include these five courses in their study plans:

EG-EE 580 Analysis of Random Signals (3)

EG-EE 581 Theory of Linear Systems (3)

EG-EE 582 Linear Estimation Theory (3)

EG-EE 585 Optimization Techniques in Systems

Engineering (3)

EG-EE 587 Operational Analysis Techniques in

Systems Engineering (3)

The remainder of the systems engineering study plan will include other engineering courses with an emphasis in a particular field such as information systems, control theory, computer systems, civil or mechanical engineering applications. Students possessing a Bachelor of Science in Engineering may elect to include up to nine units from approved subjects offered by the School of Business Administration and Economics as a part of their study plan.

Electrical Engineering Courses

203 Electric Circuits (3)

Prerequisites: Physics 225B; Math 250A; Prerequisite or corequisite: EG-GN 205. Units; Ohm's and Kirchhoff's laws; mesh and nodal analysis, superposition; Thevenin and Norton theorems; RL and RC transients; phasors and steady state sinusoidal analysis; response as a function of frequency; current, voltage, and power relationships; polyphase circuits.

203L Electric Circuits Laboratory (1)

Prerequisite or corequisite: EG-EE 203. Electrical measurement techniques; verification of basic circuit laws for resistive, RL, and RC circuits. (3 hours laboratory)

241 Low-Level Language Systems (3)

(Same as Computer Science 241)

245 Computer Logic and Architecture (3)

Prerequisites: EG-GN 205 or equivalent or Computer Science 131 for Computer Science majors. Logical design and organization of the major components of computer, analysis and synthesis of combinatorial and sequential logics, analysis of the arithmetic, memory control and I/O units, concepts in computer control. (Same as Computer Science 245)

245L Computer Logic and Architecture Lab (2)

Prerequisite or corequisite: EG-EE 245. Digital logic circuits; decoders, counters, serial and parallel adders, control circuits (1 hour lecture, 3 hours laboratory). (Same as Computer Science gree include a noninum CFR of 3.0 on all study plan work, successful completion of a comprehensive examin. 245L)

300 Electronic Instrumentation (3)

Prerequisite: EG-EE 203: Characteristics of semiconductor diodes and transistors; operational amplifiers, summers, integrators and analog filters; comparators and waveform generators; instrumentation amplifiers, digital logic and memory circuits, counters, multivibrators, analog-to-digital converters; transducers; electronic measurement systems. (For Mechanical Engineering majors.) or becuper ad Iliw noisqu antisonighe seestaye and ani

300L Electronic Instrumentation Laboratory (1)

Prerequisite or corequisite: EG-EE 300. Measurements using analog electrical meters and oscilloscope; semiconductor devices and circuit application with emphasis on instrumentation methods using common transducers; operational amplifier applications: digital logic gates and flip-flops; analog-to-digital converters and displays. (3 hours laboratory) (For Mechanical Engineering majors.)

303 Electronics (3)

Prerequisites: Physics 225C and EG-EE 203. Characteristics and elementary applications of semiconductor diodes, field-effect transistors and bipolar-junction transistors, and operational amplifiers; mid-frequency small-signal analysis and design of transistors.

303L Electronic Laboratory (1)

saified Standing Prerequisite: EG-EE 203L and English 101. Corequisite: EG-EE 303. Experimental study of semiconductor diodes, transistors, and analysis and design of elementary electronic circuits. (3 hours laboratory)

307 Digital Computer Organization and Design (3)

Prerequisite: EG-EE 245. Organization and design of major components of a digital computer including arithmetic, memory, input, output and control units. Integration of units into a system and simulation by a computer design language.

307L Digital Computer Design Laboratory (3)

Prerequisites: EG-EE 303L, 245L. Prerequisite or corequisite: EG-EE 307. Design and implementation of a small digital computer; adders, arithmetic unit, control unit, memory control unit, memory unit and program unit. May be taken in lieu of EG-EE 384 and 385. (1 hour lecture, 6 hours laboratory)

309 Network Analysis (3)

Prerequisites: EG-EE 203 and EG-GN 308. Performance of RLC circuits; complex frequency and the s-plane; frequency response and resonance; network topology; two-port network characterization; classical filter theory.

310 Electronic Circuits (3)

Prerequisites: EG-EE 303 and 309. Continuation of 303, analysis and design of multistage and feedback amplifiers; frequency characteristics of amplifiers, frequency characteristics and stability of feedback amplifiers, differential amplifiers, design of IC circuit biasing, operational amplifiers and their applications.

310L Electronic Circuits Lab (2)

Prerequisite: EG-EE 303L. Prerequisite or corequisite: EG-EE 310. Single or multistage and feedback amplifiers; linear and digital integrated circuits, ADC and DAC design project. (3 hours laboratory, 1 hour lecture.)

311 Field Theory and Transmission Lines (3)

Prerequisites: Physics 225B and Math 250B. Electrostatics and magnetostatics; boundary value problems; magnetic materials and the magnetic circuit; magnetic induction; Maxwell's equations and the formulation of circuit concepts; transmission lines.

313 Introduction to Electromechanics (3)

Prerequisites: EG-EE 309 and 311. Electromagnetic fields and circuits; transformers, saturation effects. Simple electro-mechanical systems. Circuit models, terminal characteristics and applications of DC and AC machines. In gonzanian betaler

313L Machine & Analog Computer Lab (1)

Prerequisite: EG-EE 303L. Prerequisite or corequisite: EG-EE 313. Filter and dynamic systems simulation using analog computer; transformers and AC and DC machines (3 hours laboratory).

323 Engineering Probability and Statistics (3) (Formerly 423)

Prerequisite: Math 250A. Set theory: axiomatic foundation of probability; random variables; probability distribution and density functions; joint, conditional, and marginal distributions; expected values; distribution of functions of random variables; central limit theorem; estimation.

370 Seminar in Electrical Engineering (1)

Prerequisite: senior standing in engineering. The engineering profession, professional ethics, and related topics.

384 Introduction to Electronic Design (1)

Prerequisite or corequisite: EG-EE 310L. Investigate basic building blocks, and design selected systems in electrical engineering. Each student will design a specific system or project which will be fabricated in the EG-EE 385 design projects course.

385 Electrical Engineering Design Projects Laboratory (2)

Prerequisite: EG-EE 384. Continued design and fabrication of a project or system in electrical engineering. Learn the practical aspects of design and project construction. (6 hours laboratory)

404 Introduction to Microprocessors and Microcomputers (3)

Prerequisites: EG-EE 245. Hardware and software concepts in microprocessors, processor family chips, system architecture, CPU, input/output devices, interrupts and DMA, memory (ROM, RAM), electrical and timing characteristics, assembly language programming. (Same as Computer Science 404)

404L Microprocessor Laboratory (1)

Prerequisite: EG-EE 245L. Prerequisite or corequisite: EG-EE 404. I/O interfacing with a microprocessor system; familiarization with the operating system, assembler, debugger and emulator; design of keyboard, LCO display, PS 232, D/A converter, A/D converter and floppy disk interfaces. (3 hours laboratory)

409 Introduction to Linear Systems (3)

Prerequisites: EG-EE 309. Development of time and frequency domain models for physical systems. The linearization process and representation with block diagrams and signal flow graphs; discrete-time systems and digital signals including use of Z-transforms; stability theory of continuous and discrete time systems.

410 Electro-Optical Systems (3)

Prerequisite: EG-EE 311. Introduction to electro-optics; optical radiation characteristics and sources; geometrical and physical optics; lasers and electro-optical modulation; quantum and thermal optical radiation detectors; detector performance analysis; electrooptical systems modeling and analysis; application examples.

412 Computer Architecture (3)

Prerequisites: EG-EE 245. Modern architectures of computer systems, their CPU structure, memory hierarchies and I/O processors; conventional and microprogrammed control; high-speed and pipelined ALU; cache, virtual and interleaved memories, DMA, interrupts and priority. (Same as Computer Science 412.)

416 Feedback Control Systems (3)

Prerequisites: EG-EE 409 and EG-CE 302. Feedback control system characteristics; stability in the frequency domain; analysis and design of continuous-time systems using root-locus, Bode and Nyquist plots and Nichols chart.

420 Introduction to Digital Filtering (3)

Prerequisite: EG-EE 409. Discrete-time signals and systems; solution of difference equations; Fourier transform for a sequence; Ztransform; discrete Fourier transform; FIR and IIR realizations; design of digital filters. Solved 20M assumed 12.1V to

424 Computer Simulation of Continuous Systems (3)

Prerequisites: EG-GN 205 and 308. Use of the digital computer for simulation of physical systems modeled by ordinary differential equations; problem formulation, in-depth analysis of two integration methods, and the use of a general purpose system simulation program such as CSSL.

425 Introduction to Systems Engineering (3)

Prerequisites: EG-GN 205 and EG-GN 308. Introduction to systems engineering analysis and the systems approach; introduction to modeling, optimization, design and control; systems requirements analysis; analytical and computational solution methods; information processing; integrated systems.

442 Electronic Circuits (3)

Prerequisite: EG-EE 310. Power amplifiers and tuned amplifiers; RF amplifiers; modulation and detection circuits; oscillators; and operational amplifier applications.

443 Electronic Communication Systems (3)

Prerequisites: EG-EE 310 and 323. Principles of amplitude, angular and pulse modulation, representative communication systems, the effects of noise on system performance.

445 Digital Electronics (3)

Prerequisites: EG-EE 303 and EG-EE 245. RC circuits, attenuators, compensation and scope probe. Logic circuits: DTL, TTL, STTL, LSTTL and ECL. Fanout, noise-immunity, switching speed, power consumption, input-output characteristics. Design and analysis of MOS logic circuits; PMOS, NMOS and CMOS gates, flip-flops, shift registers and memory circuits.

445L Pulse and Digital Circuits Laboratory (2)

Prerequisite or corequisite: EG-EE 445. Design and analysis of various logic circuits, DTL, TTL, STTL, LSTTL, CMOS gates. Design of timing circuits and special waveform generating circuits. (1 hour lecture, 3 hours laboratory)

448 Digital Systems Design (3)

Prerequisites: EG-EE 303 and EG-EE 245. Basic concepts and characteristics of digital systems, traditional logic design, LSI/VLSI logic design, combinational and sequential logic, and their applications; timing and control, race conditions and noise, microcomputers, computer-aided programming, development systems, microcomputer system hardware design, input/output devices.

455 Solid State Electronics (3)

Prerequisites: EG-EE 303 and 311. Quantum mechanical principles, atomic structure, crystal structure, crystal defect and diffusion, lattice vibration and phonons, energy band theory, charge transport phenomena, free electron theory of metal, intrinsic and extrinsic semiconductors, p-n junction theory, transistor theory. (8) warrent of the indiction in maintained OSA

465 Introduction to VLSI Design (3)

Prerequisite: EG-EE 245 and EG-EE 303. Computer aided design of VLSI circuits. MOS device structure, design rules, layout examples, CMOS standard cells. Speed power trade off, scaling, device and circuit simulation. VLSI design software tools. Routing method system design, Design Project. Chip fabrication through MOSIS service, testing.

497 Senior Project (1-3)

Prerequisite: consent of adviser and instructor. Directed independent design project.

499 Independent Study (1-3)

Prerequisite: approval of study plan by adviser. Specialized topics in engineering selected in consultation with and completed under the supervision of the instructor. May be repeated for credit.

503 Information Theory and Coding (3)

Prerequisite: EG-EE 323. Information measures, probabilistic studies of the transmission and encoding of information, Shannon's fundamental theorems, coding for noisy channels.

504A Linear Network Synthesis (3)

Prerequisite: EG-EE 310. Synthesis of passive element drivingpoint and transfer-functions with emphasis on RC networks. Basic operational amplifier RC circuits and their performance limitations, introduction to second-order RC active filters. Parameter sensitivity analysis.

504B Linear Active Networks (3)

Prerequisite: EG-EE 504A. Cascade realizations of RC active filters utilizing low-gain and infinite-gain amplifiers; state-variable filter realizations of high-Q filters; gyrators and generalized impedance converters. RC filters using active feedforward and feedback circuits.

The Hard State of the Hard S

505 Non-Linear Control

Prerequisite: EG-EE 416. Design of compensators for continuoustime and discrete-time systems; introduction to nonlinear control systems; phase-plane analysis; applications of Lyapunov stability theory to design. PAS 33-O4 box 606 34-O4 restempers A

507 Detection Theory (3)

Prerequisite: EG-EE 580. Formulation of decision rules for the detection of signals in a noisy environment, optimum receivers. Estimation of parameters of detected signals. Estimation theory.

513 Optimal Control Systems (3)

Prerequisite: EG-EE 581. Formulation of optimal control problems; the calculus of variations; the maximum principle; studies of minimum-time and minimum-energy problems; dynamic ty functions; joint, conditional, and marginal are sprimmargorq

514 Introduction to Optical Electronics (3)

Prerequisite: EG-EE 311. Rays and Gaussian beams in media, optical elements, and optical waveguides; optical resonators and laser oscillation; second harmonic generation and parametric oscillation; electro-optic modulation of beams; interaction of light and sound; propagation, modulation, and oscillation in waveguides; applications. The street of the

518A Digital Signal Processing I (3)

Prerequisite: EG-EE 420. Discrete Fourier transform; fast Fourier transform; Chirp Z-transform; discrete time random signals; floating-point arithmetic; quantization; finite word length effect in digital filters; spectral analysis and power spectrum estimation.

519A Hypercube Multiprocessing and Applications (3)

Prerequisite: EG-EE 412. The system architecture and application of hypercubes; the node processor, floating point accelerator, communication circuits, synchronization, routing and message-passing algorithms, process decomposition and load balancing, a hands-on parallel programming experience on Hypercube Parallel Processing System. Ylims 108850019 8108850019010111

519B Multiprocessing and Computer Networks (3)

Prerequisite: EG-EE 519A. Advanced topics in computer architecture design to increase computing through-put and efficiency through multiprocessing, ditributed processing, array and pipeline processors, and computer networks.

520 VLSI Architectures for Signal Processing (3)

Prerequisites: EG-EE 412 and EG-EE 518. Computational and architectural needs of signal processing, signal processing algorithms, concurrent array processors, mapping signal processing algorithms onto array processors (APs), systolic, engagement and wavefront APs, implementation and applications to signal/ image/speech processing.

521 Digital Image Processing (3)

Prerequisite: EG-EE 420. Digital Image Fundamentals, Image Transforms, Image Enhancement, Spatial and Frequency Domain Methods, Histograms, Image Smoothing, Image Encoding Principles, and Fundamentals of Image Segmentation, Representation and Description.

522 Spread Spectrum Communications (3)

Prerequisites: EG-EE 443 and 580. Introduction to Spread Spectrum (SS) Systems. Performance analysis of coherent digital signaling schemes. Synchronization. Direct sequence, frequency hopping, time hopping, and Hybrid Spread Spectrum Modulations. Binary shift register sequences. Code tracking loops. Performance of SS systems in a jamming environment, with forward error correction.

523A Solid State Devices and Integrated Circuits (3)

Prerequisite: EG-EE 455. Solid state fabrication technologies: diffusion, epitaxy, metallization, photo-lithography. Solid state device design principles; diodes, transistors, FETS, linear integrated circuits, digital integrated circuits.

523B Large Scale Integrated Circuits (3)

Prerequisites: EG-EE 445 and 455. Design and analysis of large scale integrated circuits. p- and n-channel MOS circuits; complementary MOS circuits; static and dynamic circuits; integrated injection logic circuits; shift register design; read-only memory and random access memory design; computer-aided and other logic circuit design.

527 Fault Diagnosis and Fault-Tolerant Design (3)

Prerequisite: EG-EE 307. Fault diagnosis and fault-tolerant design of digital systems; fault diagnosis test for combinational and sequential circuits, reliability calculations, multiple hardware redendancy, error detection and correcting codes, software redundancy and fault-tolerant computing.

529 Principles of Neural Systems (3)

Prerequisites: EG-EE 310 and 409. Principles of neural systems and their hardware implementation. Basic properties, discrete and continuous bildirectional associative memories. Temporal associative memories. Neural nets classifiers, perceptrons, supervised and unsupervised learning. Forward and backward propagation. Electrical models of neural networks using op-amp., analog VLSI.

531 Phase-Locked and Frequency Feedback Systems (3)

Prerequisite: EG-EE 580 or consent of instructor. Theory of noise and linear systems, FM feedback principles. Theory and design of phase-locked loops and their applications in communication and control.

533 Adaptive Signal Processing (3)

Prerequisites: EG-EE 420. Theory of adaptation with stationary signals, adaptive algorithms and architectures, engineering applications such as system modeling and identification, channel equalization in communication systems, interference cancelling, beamforming.

552 Biomedical System Analysis (3)

Prerequisites: EG-EE 409 and 323. System Identification and Modeling, Analysis of Biomedical Signals, Parametric Methods and Parameter Estimator, Non-parametric Methods of Linear and Non-Linear Systems, Volterra and Wiener Models, "phase-space" models, Estimation of Kernel functions and Operational Surfaces, Computational Aspects, Applications to Biomedical Systems.

557 Microprogramming and Emulation (3)

Prerequisite: EG-EE 307. An introduction to microprogramming concepts and applications to the control unit of a computer, digital control systems, interpretations, translation and emulations. (Same as Computer Science 557)

558A Microprocessors and System Applications I (3)

Prerequisites: EG-EE 404 and 404L. Microprocessors and microcomputers, their related software systems, system design with microprocessors, applicants in peripheral controllers, communication devices and multiprocessing systems.

558B Microprocessors and Systems Applications II (3)

Prerequisite: EG-EE 558A. Advanced microprocessor architecture and their applications to microcomputer networking; RISC VS CISC architectures, communication protocol, distributedoperating system, and local area networks.

559 Introduction to Robotics (3)

Prerequisite: EG-EE 416 or consent of instructor. The science of robotics from an electrical engineering standpoint, including modeling, task planning, control, sensing and robot intelligence.

559L Robotics Laboratory (1)

Prerequisites: EG-EE 558B, Computer Science 471. Corequisite: EG-EE 559. The operation, design and construction of a programmable robot. (3 hours laboratory)

572 Topics in Control Theory (3)

Prerequisites: EG-EE 581 and consent of instructor. Offered once each year with course content varied. Topics: system identification, numerical methods for optimal control computations, nonlinear system theory, and advanced digital control. May be repeated for credit with consent of instructor.

580 Analysis of Random Signals (3)

Prerequisites: EG-EE 409 and 323. Random processes pertinent to communications, controls and other physical applications, Markov sequences and processes, the orthogonality principle.

581 Theory of Linear Systems (3)

Prerequisites: EG-GN 403 and EG-EE 416. State space analysis, linear spaces, stability of systems; numerical methods of linear systems analysis and design.

582 Linear Estimation Theory (3)

Prerequisites: EG-EE 580 and 581. Mathematical models of continuous-time and discrete-time stochastic processes; the Kalman filter, smoothing and suboptimal filtering computational studies.

585 Optimization Techniques in Systems Engineering (3)

Prerequisite: EG-GN 403. Calculus of variations, optimization of functions of several variables, Lagrange multipliers, gradient techniques, linear programming, and the simplex method, nonlinear and dynamic programming.

587 Operational Analysis Techniques in Systems Engineering (3)

Prerequisites: EG-EE 323 and 585. Operational research models: applications of probability theory to reliability, quality control, waiting line theory, Markov chains; Monte Carlo methods.

597 Project (1-3)

Prerequisite: consent of adviser. Classified graduate students only.

598 Thesis (1-6)

Prerequisite: consent of adviser. Classified graduate students only.

599 Independent Graduate Research (1-3)

Prerequisite: Consent of adviser. May be repeated for credit.

Department of Mechanical Engineering

Department Chair: Jesa H. Kreiner Vice Chair: Sundaram Krishnamurthy Department Office: Engineering 100G operating system, and local area networks.

Faculty

Andy Bazar, Munir El-Saden, Krishna Kammula, Jesa Kreiner, Sundaram Krishnamurthy, Timothy Lancey, Hossein Moini, Peter Othmer, Fazlur Rehman, James Rizza, Hasan Sehitoglu, Edward Sowell. 559L Robotics Laboratory (1)

Advisers: Advisers:

Undergraduate program adviser: Sundaram Krishnamurthy Graduate program adviser: Jesa H. Kreiner

INTRODUCTION

Mechanical engineers are employed in a wide range of professional activities. As research engineers they encounter a wide variety of scientific and technical problems; therefore graduate study is recommended for this type of engineer. At the other end of the spectrum the mechanical engineer is concerned with hardware development, including the design of mechanical components and systems, fabrication, manufacturing, reliability and testing. The work performed by mechanical engineers varies from general engineering to highly specialized functions, e.g., design, product development, construction, maintenance, sales, research and management. Mechanical engineers possess a firm understanding of science, mathematics and engineering needed to carry out these complex tasks which are so important to a modern techno-Prerequisites: EG-EE 580 and 581. Mathematical variationaries

The undergraduate curriculum in mechanical engineering offers a broad education with coursework in basic sciences, mathematics, fundamental principles and practice of engineering, coupled with studies in arts and humanities and behavioral and social sciences, because of their importance in an engineering career.

BACHELOR OF SCIENCE IN ENGINEERING OPTION IN MECHANICAL ENGINEERING

See "Departments of Engineering" for requirements in mathematics and science foundation courses (33 units), engineering core courses (24 units) and general education coursework.

Upper-Division Writing Requirement

In addition to the Examination in Writing Proficiency (EWP) the following courses are required by all mechanical engineering majors: EG-ME 306A, 306B, 376A and 376B. Written work for these courses must meet professional standards and requires completion of these courses with a grade of "C" or better.



concepts and applications to the control unit ut a computer

Required Courses for Option in Mechanical Engineering (43 units)

EG-ME 202 Material Science (3)

EG-CE 301 Mechanics of Materials (3)

EG-EE 300 Electronic Instrumentation (3)

EG-EE 300L Electronics Instrumentation Lab (1)

EG-ME 306B Fluids and Thermal Laboratory (2)

EG-ME 322L Introduction to Computer Aided Design (3)

EG-ME 333 Fluid Mechanics & Aerodynamics (3)

EG-ME 335 Introduction to Mechanical Design (3)

EG-ME 370 Seminar in Engineering (1)

EG-ME 376A Dynamic Systems and Controls Lab (2)

EG-ME 376B Energy and Power Lab (2)

EG-ME 407 Heat Transfer (3)

EG-ME 414 Design Project I (3)

EG-ME 419 Design Project II (2)

EG-ME 421 Mechanical Design (3)

EG-ME 426 Design of Thermal and Fluid Systems (3)

EG-ME 431 Mechanical Vibrations (3)

Technical Electives for Option in Mechanical Engineering (5 units)

Before enrolling in any elective course approval of the adviser must be obtained.

Power and Energy:

EG-ME 405 Intermediate Fluid Mechanics (3)

EG-ME 410 Introduction to the Finite Element Method and Applications (3)

EG-ME 417 Intermediate Heat Transfer (3)

EG-ME 434 Energy Conversion and Power (3)

EG-ME 447 Piping Selection and Piping Network Design (3)

EG-ME 449 Internal Combustion Engines (3)

EG-ME 450 Power Plant Engineering (3)

EG-ME 451 Thermal Environmental Conditioning and Control (3)

EG-ME 452 Fluid Machinery (3)

Optimization of Engineering Design (3) EG-ME 454

EG-ME 472 Solar Energy and Engineering Applications (3)

Introduction to Nuclear Engineering (3) EG-ME 473

Design and Materials:

EG-ME 320 Metallurgy (3)

EG-ME 331 Mechanical Behavior of Materials (3)

EG-ME 410 Introduction to the Finite Element Method and Applications (3)

Mechanical Control Systems (3) EG-ME 411

EG-ME 454 Optimization of Engineering Design (3)

Plastics and Other Non-Metallics (3) **EG-ME 459**

Failure of Engineering Materials (3) EG-ME 460

EG-ME 461 Fabrication Methods (3)

Composite Materials (3) EG-ME 462

Introduction to Robotics and Automated EG-ME 463

Manufacturing (3)

Acoustics and Noise Control (3) **EG-ME 475**

EG-ME 480 Human Factors in Design (3) Thermal and Fluids Engineering:

Intermediate Fluid Mechanics (3) EG-ME 405

EG-ME 415 Gas Dynamics (3)

EG-ME 417 Intermediate Heat Transfer (3)

EG-ME 447 Piping Selection and Piping Network Design (3)

Thermal Environmental Conditioning and EG-ME 451 Control (3)

EG-ME 452 Fluid Machinery (3)

Robotics and Controls Engineering:

EG-ME 410 Introduction to the Finite Element Method and Applications (3)

EG-ME 411 Mechanical Control Systems (3)

EG-ME 454 Optimization of Engineering Design (3)

EG-ME 461 Fabrication Methods (3)

EG-ME 463 Introduction to Robotics and Automated Manufacturing (3)

MASTER OF SCIENCE IN ENGINEERING OPTION IN MECHANICAL ENGINEERING

To qualify for admission in conditionally classified standing, applicants must meet the following University and departmental requirements:

- 1. Bachelor's degree from a regionally accredited institution
- 2. Bachelor's degree in mechanical engineering from an institution accredited by the Accreditation Board of Engineering and Technology (ABET)
- 3. Minimum grade-point-average of 2.5 in the last 60 semester
- 4. Good standing at the last institution attended

Students not meeting the above requirements may be admitted at the discretion of of the department chair and will be required to take an additional six or more units of adviser-approved prerequisite coursework. The student must demonstrate potential for graduate study by earning a grade-point average of 3.0 or higher in these courses.

Any student entering the Master of Science degree program with a B.S. in Mechanical Engineering also will be required to complete deficiency courses prior to beginning coursework for the master's degree.

Classified Standing and Isma sof another university and to see

Students meeting the following additional requirements will be advanced to classified standing and are eligible to take graduate courses for which they are qualified.

1. Completion of all deficiency work specified by the graduate adviser with a grade of "B" or better.

- 2. Development of an approved study plan. Before completing nine units at CSUF toward the M.S. degree, the student must meet with an adviser for preparation of a study plan which must be approved by the department chair and Dean of Graduate Studies.
- 3. Fulfillment of the University Writing Requirement prior to completing nine units at CSUF toward the M.S. degree. Students must demonstrate writing ability commensurate with the baccalaureate degree. Please refer to the "Graduate Regulations" section of this catalog for further information on how this requirements can be met.

Study Plan

The study plan consists of a minimum of 30 units of adviserapproved upper-division or graduate level course work which must be completed with an overall grade-point average of at least 3.0. At least half the units required for the degree must be in approved graduate (500-level) courses. molesimbs to village of

plicants must meet the following University and departmental

Required Courses (6 units)

EG-GN 403 Computer Methods in Numerical Analysis (3) Additional adviser-approved math-oriented course (3)

Concentration Courses (15 units) (TESA) vgclondos bres

A student is required to select a minimum of 15 units in Mechanical Engineering. These units may be 400-level and 500-level courses and are selected according to the student's areas of interest. Course work is designed to meet student's professional career goals and may focus on the following areas: Power and Energy, Design and Materials, Thermal and Fluids Engineering, and Robotics and Controls.

Other Courses (9 units), among abong a gridness of your employee

Elective units should be taken in Mechanical Engineering or a related engineering field and are subject to adviser approval. Any student entering the Master of Science degree program with a B.S. in Mechanical Engineering also with be required to com-

Exam/Thesis/Project Option

Subject to approval by the department chair, students may select one of the following options for final review by a department Students meeting the following additional require: sestimmoo

advanced to classified standing and are eligible to take graduate

Oral comprehensive examination or EG-ME 598 Thesis (6 units) or EG-ME 597 Project (3 units)

Mechanical Engineering Courses

102 Graphical Communications (3)

Graphics as a fundamental means of communication in design. Development of spatial visualization. Freehand sketching, and use of instruments, orthographic projection, pictorials. Dimensioning, tolerances, descriptive geometry, computer graphics, design procedure, cost analysis and design project. (1 hour lecture,

202 Material Science (3)

Prerequisites: Chem 120A and Physics 225A. Scientific and engineering principles important in selection of materials in design. Stress, strain, electrical and magnetic properties. Crystalline structure and imperfections, environmental effects and other topics from material science. Metallic, organic and ceramic substances. (CAN ENGR 4)

304 Thermodynamics (3)

Prerequisites: Chem 120A, Math 150B and Physics 225A; corequisite: EG-GN 205 or consent of instructor. Energy and its transformation; heat and work; conservation of mass and energy, system properties, irreversibility and availability. Ideal gases, heat engines and refrigeration (both ideal and actual), equipment selection and sizing.

306A Unified Laboratory (1)

Prerequisite: EG-ME 102, Physics 225A; corequisite: EG-GN 205. Observations and measurements in the laboratory as an introduction to the experimental method. Static and dynamic measurements are made on simple engineering systems (beams, columns, pendulums, gyroscopes) using mechanical and electrical transducers. Report writing. (3 hours laboratory)

306B Fluids and Thermal Laboratory (2)

Prerequisite: EG-ME 306A and EG-ME 333. Corequisite: EG-ME 407. Continuation of EG-ME 306A. Flow measurement techniques using orifice plates, venturimeters. Pitot probes and nozzles. Temperature and pressure measurement. Experimental studies of fluid friction and heat exchanger performance. Use of microcomputers in data acquisition, reduction and analysis. Technical report writing. (1 hour lecture, 3 hours laboratory)

320 Metallurgy (3)

Prerequisite: EG-ME 202. Structure and properties of metals and alloys, influences of mechanical and thermal treatments, plastic deformation, work hardening and recrystallization, grain growth, alloy diagrams, solution hardening, diffusion hardening, precipitation hardening, the iron-carbon system, composite materials, EG-ME 454 Optimization serulial august of the Hon-Metallice (3)

322L Introduction to Computer Aided Design (3)

Prerequisite: approved study plan. Design using commercial computer aided design systems - roles of 2-D drafting, 3-D wireframe, solids modeling, finite element modeling and optimization in the computer aided design process. Design project utilizing appropriate software. CAD system selection criteria. (6 hours laboratory, 1 hour discussion)

331 Mechanical Behavior of Materials (3)

Prerequisite: EG-ME 202. Plastic deformation and hardening mechanisms, creep phenomena. Fatigue. Behavior at cryogenic temperatures. Fabrication processes and their effects on properties. Testing of materials.

333 Fluid Mechanics and Aerodynamics (3) may second la

Prerequisites: EG-GN 205 and EG-CE 201. Principles of fluid mechanics and their applications; fluid properties; fluid statics; one-dimensional incompressible flow; concepts of multi-dimensional flows including conservation principles; similitude and dimensional analysis; elements of compressible flow; design considerations in fluid mechanics.

335 Introduction to Mechanical Design (3)

Prerequisites: EG-GN 205, EG-CE 302 and EG-ME 102. Kinematics and dynamics of mechanisms; design and analysis of linkages, gears, cams, through the use of analytical, graphical and computer-aided techniques. The same allegate the computer aided techniques.

370 Seminar in Engineering (1)

Prerequisite: senior standing in engineering. The engineering profession, professional ethics, and related topics. May be repeated once for credit with the approval of the faculty chair.

376A Dynamic Systems and Controls Laboratory (2)

Prerequisites: EG-CE 302, EG-EE 300, EG-ME 306A and EG-GN 308. Dynamic systems, vibration, acoustics and other mechanical subjects; analog and computer simulation of dynamic systems; robotics, computer controlled machining and automatic data acquisition. (6 hours laboratory)

376B Energy and Power Laboratory (2)

Prerequisite: EG-ME 304 and EG-ME 306B. Mass transfer, heat transfer, and thermodynamic phenomena and their interaction with mechanical systems. Team projects, engineering reports. (6 hours laboratory)

405 Intermediate Fluid Mechanics (3)

Prerequisites: EG-GN 205, EG-ME 333, EG-GN 308. Intermediate fluid mechanics and computer graphics for flow field visualization. 2-D and axisymmetric flow fields. Potential and viscous flow fields. Incompressible and compressible flows. Basic fluid equipment and computational fluid mechanics.

space hearing and cooling, power production and ener

407 Heat Transfer (3)

Prerequisites: EG-ME 333 and Math 250B. Principles of heat transfer and their applications: introduction to conductive, convective and radiation heat transfer; one-dimensional heat conduction; concepts of multi-dimensional conduction; convective heat transfer in conduits and external surfaces; heat exchangers and thermal system design.

410 Introduction to the Finite Element Method and Applications (3)

Prerequisites: EG-ME 407, EG-CE 301, EG-ME 431, EG-ME 322L. Basic concepts of integral and matrix formulation of boundary value problems. One dimensional finite element formulation of heat transfer, truss beam and vibration problems. Applications of commercial finite element programs. Selection criteria for code, element and hardware. CAD system interfaces.

411 Mechanical Control Systems (3)

Prerequisites: EG-GN 205, EG-GN 308 and EG-CE 302. Mechanical control system design and analysis. Pneumatic, hydraulic, electromechanical actuators and devices. Stability criteria, root locus plots, transfer functions, introduction to feedback control and microprocessor applications.

414 Design Project I (3)

Corequisites: EG-ME 426 and EG-ME 421. Introduction to design methodology, CAD/CAE philosophy, optimization, product liability, ASME codes, safety, human factors, material selection, legal aspects of design and professional ethics. Lab covers design project to be completed in EG-ME 419, feasibility study, preliminary design analysis, assembly drawings, and interim project report. Oral presentation is required for all projects. (1 hour lecture and 6 hours laboratory) 447 Piping Sel ction and Piping N

415 Gas Dynamics (3)

Prerequisites: EG-ME 304 and EG-ME 333. Thermodynamics of compressible fluid flow, normal and oblique shocks, flow through converging-diverging passages, flow in ducts with heating or cooling, interaction of shocks and expansion waves. Linearized 2-D flows, supersonic wind tunnel testing.

417 Intermediate Heat Transfer (3)

Prerequisites: EG-GN 205, EG-GN 308, and EG-ME 407. Computer color graphics for temperature field visualization. 2-D/3-D temperature fields. Steady and unsteady conduction heat transfer. Incompressible free and forced convective boundary layer flows. Multiple surface radiation analysis. Boiling and condensation. Emphasis on design aspects of computational heat transfer.

419 Design Project II (2) anguing bas more admost bas about Prerequisite: EG-ME 414. Completion of the design project initiated in EG-ME 414. Course coverage encompasses finalizing the working drawings, analysis, construction of prototype, model or components, testing of the proposed design, and preparation of a final design report. Oral presentation is required for all projects. (6 hours laboratory) mental language and la sixyland bas you IT

421 Mechanical Design (3)

Prerequisites: EG-CE 301 and EG-ME 335. Design and application of machine components such as brakes, clutches, gears, springs, fasteners, lubrication of machine elements, bearings, gaskets, seals, "O" rings, methods for study of impact, dynamic loading and fatigue; comprehensive treatment of failure, safety and reliability.

426 Design of Thermal and Fluid Systems (3)

Prerequisite: EG-ME 407 and EG-ME 306B. Integration of fundamental principles of thermodynamics, fluid mechanics, heat transfer and related subjects in the design of thermal and fluid systems. The design process is applied to pumps, fans, turbines, boilers, and heat exchangers using economics and optimization with case studies.

431 Mechanical Vibrations (3)

Prerequisites: EG-GN 205, EG-GN 308 and EG-CE 302. Modeling and analysis of single and multiple degrees of freedom systems. Response to forcing functions. Vibrations of machine elements. Design of vibration isolation systems. Balancing of rotating machinery.

434 Energy Conversion and Power (3)

Prerequisites: EG-EE 300 and EG-ME 304. The direct conversion of heat to electrical energy, thermoelectric, thermionic and magnetohydrodynamic devices, solar and fuel cells; application and design considerations.

438 Analytical Methods in Engineering (3)

Prerequisite: EG-GN 308. Ordinary and partial differential equations with constant and variable coefficients; orthogonal functions; conformal mapping; potential theory; engineering applications.

447 Piping Selection and Piping Network Design (3)

Prerequisites: EG-ME 333 and EG-CE 301. Pressure losses in piping networks; selection of piping based upon fluid, temperature, pressure and economic considerations; piping connections, fittings and components; stress analysis; review of national piping codes.

449 Internal Combustion Engines (3)

Prerequisites: EG-ME 304 and EG-ME 407. Thermodynamics of cycles for internal combustion engines, including fuels and combustion; performance characteristics of various types of IC engines, engine design concepts and applications.

450 Power Plant Engineering (3)

Prerequisites: EG-ME 304 and EG-ME 407. Engineering principles and design methods applicable to modern electrical power generation facilities. Economics, heat transfer, steam generation, fuels and combustion, and equipment. Steam, gas, turbine, diesel, nuclear and hydroelectric plants are considered.

451 Thermal Environmental Conditioning and Control (3)

Prerequisites: EG-ME 304 and EG-ME 407. The fundamentals of controlling the thermal environment within enclosed spaces. Theory and analysis of fundamental thermodynamics relating to thermal environmental engineering. Laboratory demonstrations of actual systems.

Prerequisities: EG-CE 301 and EG-MF 33 452 Fluid Machinery (3)

Prerequisites: EG-ME 304 and EG-ME 333. Thermal and hydraulic design and analysis of pumps, fans, turbines and compressors. Component selection, system design and performance evaluations.

454 Optimization of Engineering Design (3)

Prerequisites: EG-GN 308, EG-ME 335, or equivalent. Application of analytical and computer optimization techniques to engineering design problems. Presentation of design as an optimization task. One dimensional minimization. Unconstrained and constrained nonlinear programming. Approximation concepts. Duality. Computer applications to design problems using a general purpose optimization program. but a interbald had a like

459 Plastics and Other Non-Metallics (3)

Prerequisite: EG-ME 202. Simplified chemistry of plastics. Applications. Manufacturing processes. Methods for preventing deterioration of nonmetallic materials. Composites. Ceramics. Refractories. Wood. Destructive and nondestructive testing of nonmetallic materials.

460 Failure of Engineering Materials (3)

Prerequisite: EG-ME 202. Imperfections in solids; fracture initiation and crack propagation; dislocations; yield point phenomenon; fatigue; creep; ultrasonic effects; radiation damage; stress corrosion; hydrogen embrittlement; composite materials.

461 Fabrication Methods (3)

Prerequisite: EG-ME 202. Manufacturing processes. Metal joining processes. Casting, forging, powder metallurgy, machining and machining tools, finishing, coating, plating, non-metallic materials inspection and gaging, tolerances.

462 Composite Materials (3)

Prerequisites: EG-ME 202 and EG-CE 301. Application, mechanical properties and fabrication studies of fiber reinforced composite materials, stress analysis of laminated anisotropic composite structures. Studies of special problems unique to composites.

463 Introduction to Robotics and Automated Manufacturing (3)

Prerequisites: EG-ME 335 and EG-ME 376A. Kinematic, dynamic, control and programming fundamentals associated with industrial robots and programmable manipulators. Trajectory planning, application of robotics in manufacturing, computeraided design/computer-aided manufacturing and integration of robots into flexible manufacturing systems.

472 Solar Energy and Engineering Applications (3)

Prerequisites: EG-ME 304 and EG-ME 407. Solar collectors, space heating and cooling, power production and energy storage; review of basic economic principles; quantification of technical and economic performance of engineering solar systems; system performance.

473 Introduction to Nuclear Engineering (3)

Prerequisite: approved study plan. A review of atomic physics and nuclear fission; elementary reactor theory and reactor design.

475 Acoustics and Noise Control (3)

Prerequisite: Physics 225C. Basic phenomena on the propagation, absorption and generation of acoustic waves, specification and measurement of noise, effects of noise on speech and behavior, legal aspects of industrial and building noise, principles and application of noise control.

480 Human Factors Engineering (3)

Prerequisite: approved study plan. Principles of design for making products and systems faster, easier, and more efficient to use. Design project using these principles. Principles consider human capabilities and limitation of senses and responses to sensory stimuli. Physiological, psychological and work factors are evaluated for design of equipment, work methods, environments and standards.

497 Senior Project (1-3)

Prerequisite: consent of instructor, adviser and chair. Directed independent design project.

499 Independent Study (1-3)

Prerequisite: approval of study plan by instructor, adviser and chair are required. Specialized topics in engineering selected in consultation with and completed under the supervision of the instructor. May be repeated for credit.

500 Nuclear Reactor Design (3)

Prerequisite: EG-ME 473. Nuclear systems design, analysis and operation, including: nuclear fuel cycle, nuclear reactor systems, safety and safeguards, the regulatory process fusion.

508 Advanced Inviscid Fluid Flow (3)

Prerequisites: EG-GN 205, EG-GN 308 and EG-ME 333. Study of two- and three-dimensional potential flow theory. Sources, sinks, vortices, Rankine bodies, free jets, channel flow, air foils. Introduction to computational fluid dynamics. Complex potential and various transformation techniques are used.

511 Advanced Mechanical Vibrations (3)

Prerequisites: EG-ME 431. Vibrations in rotating and reciprocating machines; noise and vibration in fluid machinery; continuous systems; random vibrations; transient and nonlinear vibration, computer applications.

512 Advanced Mechanical Design (3)

Prerequisite: EG-ME 421. Advanced modern mechanisms. Analysis and synthesis of mechanisms. Computer aided design of mechanical, thermal and fluid systems. Methodology of design. Optimization in design.

516 Advanced Radiation Heat Transfer (3)

Prerequisite: EG-ME 407. Radiation heat transfer including the study of the geometric factor, black and real systems, and energy transfer in absorbing, scattering and emitting media, and radiation combined with other modes of energy transfer.

520 Advanced Viscous Fluid Flow (3)

Prerequisites: EG-ME 333. The fundamental equations of viscous fluid flow. Viscous drag estimation. Drag reduction methods. Introduction to instability and transition.

524 Advanced Thermodynamics (3)

Prerequisite: EG-ME 304. Equilibrium and stability criteria, third law of thermodynamics, multiple component systems, ionization, equilibrium reaction, lower core "ideal" gases, thermodynamic cycles.

525 Thermolasticity (3)

(Same as EG-CE 525)

526 Advanced Convective Heat Transfer (3)

Prerequisite: EG-ME 407. Convective heat transfer; heat transfer in external and internal flow fields for both laminar and turbulent fluid flow; applications.

530 Advanced Strength of Materials (3)

Prerequisite: EG-ME 421. Energy methods. Castigliano's Theorem: curved beams, beams on elastic supports, thickwall cylinders, shrink fits, localized stress, column instability, failure theories, bearings.

536 Advanced Conduction Heat Transfer (3)

Prerequisite: EG-ME 407. Conduction heat transfer; Bessel and Legendre functions, Fourier series solutions, heat sources and sinks, multidimensional problems, transient systems and numerical methods (finite difference and finite element methods).

538 Advanced Engineering Analysis (3)

Prerequisites: EG-GN 403 and EG-ME 438. Partial differential equations in engineering, numerical techniques, integral equations, engineering applications.

540 Computer Applications In Engineering Design (3)

Prerequisite: EG-GN 403. Digital and analog computers in engineering design. Design methodology, modeling and simulation. Geometric Modeling. Design optimization. Expert systems in engineering design. Generalized programs and simulation languages are emphasized.

541 Finite Element Method for Mechanical Engineers (3)

Prerequisites: EG-ME 410 and EG-GN 403. Matrix formulation of basic equations in steady state and transient heat conduction. Elements and interpolation functions. Non-linear problem formulation. Finite element computer programs in heat transfer, fluid dynamics and design.

576 Advanced Dynamics & Control of Mechanical Systems (3)

Prerequisite: EG-ME 411. Advanced study of the dynamics and control of mechanical systems including: state space modeling, Lyapunov stability, modern design techniques and case studies.

597 Project (1-6)

Prerequisite: consent of adviser.

598 Thesis (1-6)

Prerequisite: consent of adviser.

599 Independent Graduate Research (1-3)

Prerequisite: classified graduate status. Open to graduate students only by consent of Mechanical Engineering Graduate Committee. May be repeated for credit only upon approval of this committee.

475 of considering Noise Control (3):

Treequisite: Physics 225C. Basic phenomera on the propersion, absorption and generation of accusaic waves, precincation and sugarantees on the properties of updays and present of noise, effects of poise on speech and behave log, eggl appets of noise, and building noise, principles and

waitry. Computer applications to distribute oxion to not a pro-

480 Human Factors Engineering (3)
Percequisire: approved study plan. Principles of design for making products and systems haster easier, including extrodem to use. Useign projectusmyntises paint gree. Esimenples consider unouncapplibilities and dinneration of services and responses accounter to application of services and responses accounter support of appropriate wards and work factors are exalted and for design of equivariers, wards are shooted, environments and and standard or services.

Prerequisite: consent by instructor, afficief that chair Directed independent design project of square 10.7 More required more of their seconds are aspected on a fish seconds are aspected on a fish seconds of some particles of the seconds of seconds are required. Specialised topics in engineering selected in consultation with and completed ander the supervision of the instructor, May be repeated for credit.

JOU Nuclear Reactor Design (3)

Prerequisited EG-MB 473! Nuclear syst incidence, analysis and operation, including models for locked, no less reactor systems, safety and safeguards, the regulatory process majorn.

508 Advanced Inviscid Fluid Flow (3)
Prerequisites: EG-GN 205 EG-GN 308 and EG-ME 33, Study of two- and three-durensional vocantial flow theory. Sources, sinks, vortices, Kankine bodies, free res, channel flow, air toils. Introduction to computational fluid dynamics. Complex potential and various transformation techniques are used.

511 Advanced Mechanical Mibrations (13), non-substitut conPrerequisites: EG-ME 431. Vibrations in rotating and spain victor
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516 Advanced Radiation Hear Transfer (3)
Prerequishe: 50-ME 407. Nadie to a bear transfer including the study of the geometric factor, black and real systems, and entered transfer in absorbing scattering and entiring realis, and tadination combined with other modes of energy transfer.

520 Advanced (Viseous-Flaid Flow 43 M or notrouborant 674
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7.24 Advanced Thornsodynamics (9) WE 30. It is a secure of the feet of the modynamics in the companies of the feet of the feet

525 Thermolasticity (3) (Same as EO-CE 525)

520 Advanced Convertive Hear Transfer (1)
rerequisite: EGAME 407 Convertive hear transfer hear transfer hear transfer hear transfer hear transfer and untrained to both the transfer and untrained to the fluid flow, applications:

530 Advanced Strength of Materials (3)
Prerequisite: EG-ME 421 Energy methods Cast Hands Theorem our curved beams, beams on elacide supports inickwall cyling from three leading and the strength of the stren

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Prerequisites EG-MG give Gardier into been transfery Beste light
Legardre duscrions, housier, series soldflond, heat sources and
states, medgal mensional projects, introductor resigns and namely
cal mension (finite officience and hairs element methods).

538 Advanced Freinsering Aralysis (3), available and P. Take Freequence to Color Ob and EC-ME 138, Parrial differential equations in emmersion, numerical sechniques, interral equations, enumering applications

Prerequisite: EG-ON 403. Digital and analog computers in chiggs necessing design. Design methodology, modeling and simulation necessing design. Design methodology, modeling and simulation of the property of the control of the contr

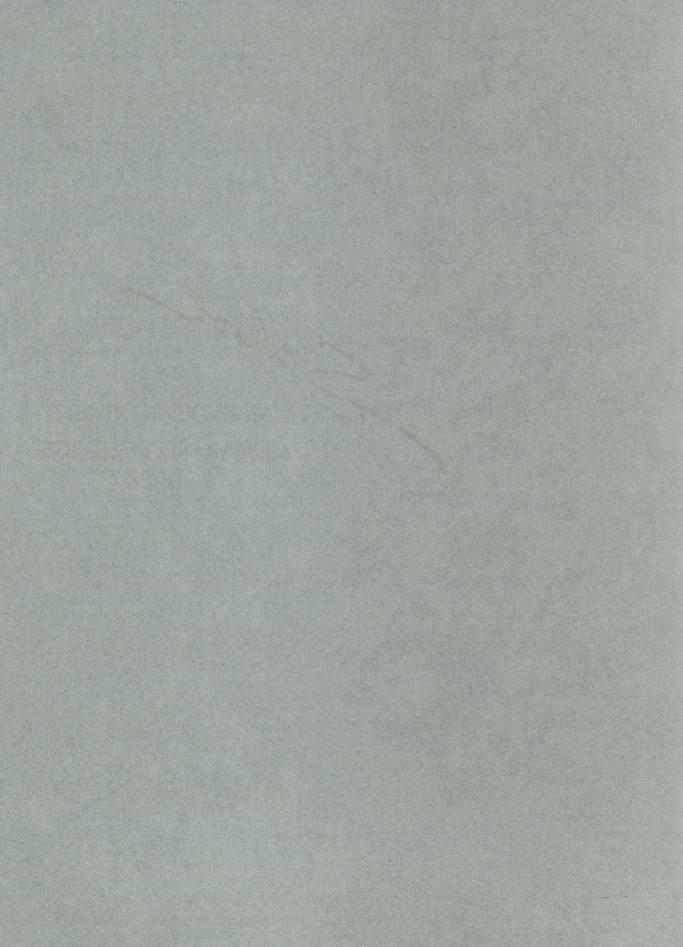
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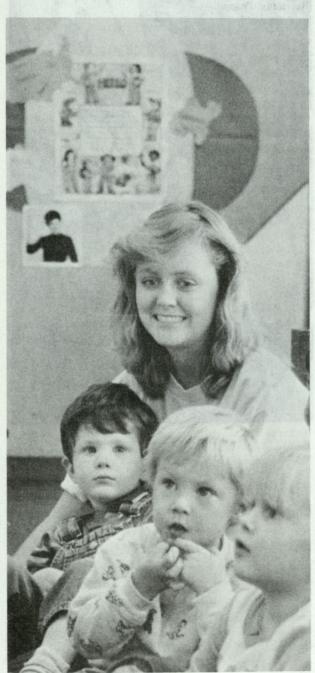
Prerequisite: consent of adviser. (E) yranidash burl? S?4

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OF HUMAN DEVELOPMENT AND COMMUNITY SERVICE



School of Human Development and Community Service



Dean: Mary Kay Tetreault Associate Dean: Michael Parker

Programs Offered

Child Development

Bachelor of Science Minor

Counseling

Master of Science

Education

Master of Science

Concentrations in:

Bilingual/Bicultural Education (Spanish-English)

Elementary Curriculum and Instruction

Reading

Educational Administration

Special Education

Teaching English to Speakers of Other Languages (For further information refer to the Department of Foreign Languages and Literatures section of this catalog.)

Teaching Credentials (See Teaching Credential Programs section of this catalog)

Health Promotion

Minor

Human Services

Bachelor of Science

Minor

Military Science

Minor

Nursing

Bachelor of Science

Physical Education

Master of Science Bachelor of Science

Minor

The School of Human Development and Community Service provides students with an education that contributes to their intellectual, personal and professional development. The school offers programs that prepare students for professional fields of the greatest human concern in our richly diverse society: the education and development of our children, and the physical and mental health of all members of our community. Programs in the school lead to traditional academic degrees at the baccalaureate and graduate levels as well as to a variety of specific certificates, credentials and licenses.

The School of Human Development and Community Service is organized into the following instructional units: the Department of Child Development; the Department of Counseling; the Department of Educational Administration; the Department of Elementary and Bilingual Education; the Department of Health, Physical Education and Recreation; the Human Services Program; the Military Science Program; the Department of Nursing; the Department of Reading; the Department of Secondary Education and the Department of Special Education. In addition to these instructional units, the school also includes the University Recreation Program.

Theatre 402A Dramatic Activities for Children (3) to slauM

Electives (6 units required) but memory Movement and Theorems (6)

courses approved by a Child Develonment adviser a colonical

NOTE: Transfer studience may apply a mexicium of 12 units of

Take a second class from above section or one of the followings.

Department of Child Development

Department Chair: Judith Ramirez

Department Office: Education Classroom 105

Programs Offered

Bachelor of Science in Child Development

Minor in Child Development

Faculty

Sylvia Alva, Diana Guerin, Robert McLaren, Judith Ramirez, Mark Runco

Advisers Advisers Advisers Advisers

Full-time faculty, Academic and Career Advisement Nancy Zuniga, Multiple Subjects Waiver Advisement

Writing Course (3 torts minimum) State NOITOUDONTAIL

The Bachelor of Science in Child Development is an interdisciplinary degree program designed for students wishing to study the developmental and aging processes in humans throughout the life cycle, concentrating on the periods between birth and young adulthood. Since the program emphasizes interrelationships between the development of the person, the family, and the community, Child Development majors study and observe infants, children, adolescents, and adults in a variety of formal and informal settings.

Child Development is an appropriate major for students planning to pursue advanced degrees in the behavioral sciences and/or enter professions dedicated to service to children and families; for example, education, child guidance, social welfare, or family counseling.

BACHELOR OF SCIENCE IN CHILD DEVELOPMENT

The major in child development requires the successful completion of a minimum of 54 units which satisfy the pattern indicated below. Each course counted for the major must be completed with a grade of C or higher.

Many upper-division courses require prerequisites. It is the student's responsibility to become familiar with all appropriate campus regulations and degree requirements.

Core Courses (33 units required)

Introductory Course (3 units)

Child Development 210 Introduction to Child Development (3)

Core Development Courses (9 units minimum required)

Child Development 312 Human Growth and Development (3)

or Psychology 361 Developmental Psychology (3)

Child Development 320 Infancy and Early Childhood (3)

Child Development 325 Middle Childhood (3)

Child Development 330 Adolescence and Early Adulthood (3)

Required Core Courses from other Departments (12 units minimum)

Biology 305 Human Heredity and Development (3)

Psychology 363 Experimental Child Psychology (3)

Sociology 453 Child in American Society (3)

Special Ed 371 Exceptional Individual (3)

Writing Course (3 units minimum)

Child Development 300 Writing for Child Development Professionals (3) or approved alternate

Practicum Requirement (3 units minimum)

Child Development 394 Practicum in Child Development (3)

or Ed Elem 315 Introduction to Elementary Classroom Teaching (3)

or Ed Sec 310 The Teaching Experience: Participation (3)

or Psychology 495 Internship in Psych (3)

or Sociology 400 Sociological Internship (3)

NOTE: A minimum of 120 hours of supervised fieldwork with children and/or families, completed after admission to the CSUF Child Development Program and while enrolled in an approved practicum class, is required for the major. (See departmental handout on "Guidelines for Practicum Requirements" for details.)

Culminating Development Course (3 units minimum)

Child Development 490 Senior Seminar (3)

Studies In Diversity (6 units required)

Cultural Diversity Course (3 units minimum)

Afro 309 The Black Family (3)

Afro/Human Services 311 Intracultural Socialization Patterns (3)

Chicano 305 Chicano Family (3)

Chicano 431 Chicano Child (3)

Other Studies in Diversity

Take a second class from above section or one of the following:

Anthro 413 Culture and Personality: Psychological Anthropology (3)

Criminal Justice 300 Introduction to Criminal Justice (3)

Physical Ed 364 Motor Development (3)

Sociology 413 Juvenile Delinquency (3)

Sociology 451 Sociology of the Family (3) (required for Child Center permit)

Special Ed 421 Working with Parents of Children with Exceptional Needs (3)

Studies in Special Topics (9 units minimum)

Afro 422 Psychology of the Afro American (3)

American Studies 301 The American Character (3)

Anthropology 450 Culture and Education (3)

Art 380 Art and Child Development (3)

Biology 323 Biology of Sexually Transmitted Diseases (STD) (1)

Biology 360 Biology of Human Sexuality (2)

Criminal Justice 425 Juvenile Justice Administration (3)

Dance 471 Creative Dance for Children (3)

Ed Sec 406 Educational Sociology (3)

English 433 Children's Literature (3)

Mathematics 303A Fundamental Concepts of Elementary Mathematics (3)

Music 333 Music and Child Development (3)

Music 433 Music in Early Childhood (3)

Nursing 307 Health Promotion: Parent-Child Nursing (3)

Physical Ed 372 Movement and the Child (3)

Psychology 311 Educational Psychology (3)

Psychology 331 Psychology of Personality (3)

Psychology 341 Abnormal Psychology (3)

Psychology 464 Advanced Developmental Psychology (3)

Psychology 470 Behavior Modification (3)

Reading 340 Fostering Language Growth for Reading

Readiness (3) (recommended for Child Center permit)

Science Ed 310 Physical Science Concepts (3)

Sociology 341 Social Interaction (3)

Sociology 381 Sociology of Human Sexuality (3)

Speech Comm 403 Speech/Language Development (3)

Theatre 402A Dramatic Activities for Children (3)

Theatre 411 Oral Interpretation of Children's Literature (3)

Electives (6 units required)

Two additional courses selected from the above choices or other courses approved by a Child Development adviser.

NOTE: Electives must be taken for a letter grade unless offered only on credit/no-credit basis.

NOTE: Transfer students may apply a maximum of 12 units of lower-division coursework taken at other institutions toward the total of 54 units. Application of transfer units to major requirements must be approved by the Department Chair.

MULTIPLE SUBJECTS CREDENTIAL WAIVER

A carefully selected sequence of courses in the child development major, general education and electives has been approved by the State of California as a waiver for the General Knowledge Core Battery Section of the National Teachers Exam (NTE).

Either completion of the waiver or passing scores on the General Knowledge Core Battery of the National Teachers Exam (NTE) is a requirement for the Multiple Subjects (Elementary) Teaching Credential. Contact the Child Development Department for further information.

THE MINOR IN CHILD DEVELOPMENT

For a minor in Child Development, 21 units are required:

Three of the following (9 units required)

Child Development 312 Human Growth and Development (3)

or Psychology 361 Developmental Psychology (3)

Child Development 320 Infancy and Early Childhood (3)

Child Development 325 Middle Childhood (3)

Child Development 330 Adolescence and Early Adulthood (3)

One of the following (3 units required)

Child Development 394 Practicum in Child

Development (3)

or Ed Elem 315 Introduction to Elementary

Classroom Teaching (3)

or Ed Sec 310 The Teaching Experience:

Participation (3)

or Psychology 495 Internship in Psychology (3)

or Sociology 400 Sociological Internship (3)

Three of the following (9 units required)

Afro 309 Black Family (3)

Art 380 Art and Child Development (3)

Biology 305 Human Heredity and Development (3)

Chicano 305 Chicano Family (3)

Chicano 431 Chicano Child (3)

Criminal Justice 425 Juvenile Justice

Administration (3)

Dance 471 Creative Dance for Children (3)

English 433 Children's Literature (3)

Music 333 Music and Child Development (3)

Music 433 Music in Early Childhood (3)

Physical Ed 364 Motor Development (3)

Physical Ed 372 Movement and the Child (3)

Psychology 464 Advanced Developmental

Psychology (3)

Psychology 470 Behavior Modification (3)

Sociology 413 Juvenile Delinquency (3)

Sociology 451 Sociology of the Family (3)

Sociology 453 Child in American Society (3)

Special Ed 371 Exceptional Individual (3)

Special Ed 421 Working with Parents of Children with

Exceptional Needs (3)

Speech Comm 403 Speech/Language Development (3)

Theatre 402A Dramatic Activities for Children (3)

Child Development Courses

210 Introduction to Child Development (3)

Introduction to the field of child development, including: historical and theoretical overviews; survey of programs and services for children, adolescents, and young adults; introduction to observational techniques; and exploration of professional opportunities, organizations, and publications.

300 Writing for Child Development Professionals (3)

Prerequisites: Child Development 210 or consent of instructor. Styles of written communication common to child development programs and services. Reporting on theories and research to multiple audiences (e.g. other professionals, parents, community groups, etc.). Meets upper division baccalaureate writing course requirement for child development majors.

312 Human Growth and Development (3)

Prerequisite: Psychology 101 or consent of instructor. Human growth and development, childhood, adolescence and middle and old age. Mental, social, emotional and physical development.

320 Infancy and Early Childhood (3)

Prerequisite: Psychology 101 or consent of instructor. The physical growth and social and personality development of the human through the sixth year of life.

325 Middle Childhood (3)

Prerequisite: Psychology 101 or consent of instructor. Physical growth, personality development and social participation during middle childhood. Patterns of cognitive growth and emotional adjustment.

330 Adolescence and Early Adulthood (3)

Prerequisite: Psychology 101 or consent of instructor. Examination of influences on human development before, during and following adolescence. Community resources and services for adolescents and their families. Consequences of adolescent experiences for later development.

394 Practicum in Child Development (3)

Prerequisite: Child Development 210 and one of the following: Child Development 312 or Psychology 361; Child Development 320, 325 or 330. Supervised field experience in agencies, institutions, and organizations serving children and families. Minimum of four hours per week; total of 120 hours required for major. May be repeated for a total of nine units of credit. Credit/No Credit grade option only.

490 Senior Seminar in Child Development (3)

Prerequisites: Three of the following: Child Development 312, 320, 325 or 330. Topics in child development selected by the faculty and students participating in course. Theory, methodology and findings.

499 Independent Study (1-3)

Individual research project, either library or field, under the direction of a Child Development faculty member. May be repeated for a maximum of six total units of credit. Only three units may be taken in a single semester.

Department of Counseling

Department Chair: James Robert Bitter Department Office: Education Classroom 105

Programs Offered

Master of Science in Counseling

Pupil Personnel Services Credential Marriage, Family and Child Licensure Preparation

Faculty

James Bitter, Gerald Corey, Lisa Hoshmand, Dolores Jenerson, Michael Parker, Elena Parra, and George Williams

Advisers

Counseling, Master of Science: James Bitter Pupil Personnel Services Credential: George Williams Marriage, Family and Child Counselor Licensure: Dolores Jenerson

INTRODUCTION

The Counseling Department offers professional preparation for those people who wish to work in the helping professions. The Master of Science degree is designed as a 48-unit program of study, leading to a Pupil Personnel Services (PPS) Credential in School Counseling, or preparation for the Marriage, Family, and Child Counselor (MFCC) License. The graduate program may be used in preparation for study toward a doctorate in a variety of helping profession areas.

The curriculum in the Department of Counseling is built on the following assumptions: (a) that there is an important integrative aspect to graduate level education that requires adequate undergraduate preparation; (b) that a graduate level program in Counseling should be a scholar-practitioner model; (c) that the curriculum can be delineated conceptually into a "core counseling" program, encompassing selected experiences, knowledge base, and skill development for all counselors, and specialized training that is important for career and job selection; (d) that the personhood and development of both the counselor and the client are important in every counseling relationship and should, therefore, be at the center of counselor training; and (e) that integration of learning is best facilitated by sequencing, referencing, and providing didactic-practicum experiences in each of the core counseling courses.



The Counseling program is holistic in orientation and delivery. Cognitive, emotional, and values development are integrated with professional growth in the field of Counseling. The courses include an emphasis on self-awareness, reflective thought, and an informed approach to professional practice. Scholarship is given equal weight as didactic-practicum experiences. Qualitative research processes, which complement a humanistic orientation, are emphasized. Students are urged throughout their programs of study to experience whole forms, to question and look for alternative processes, to use qualitative observational methods, and to integrate learnings into personal as well as professionrequirements and consult with a department ad trampolayal la curricular content areas that Reet BBSE requirements:

Graduate students in Counseling are prepared to work with a variety of individuals, groups, and families in a variety of settings. Our graduates have accepted positions in public and private schools, community colleges, business, the health professions, and law enforcement and corrections. Most of our graduates seek preparation for MFCC licensure and/or seek a PPS Credential as a School Counselor, mariett of melana brown assistant for enterm

MASTER OF SCIENCE IN COUNSELING

Admission Requirements

The Department offers a 48-unit Master of Science (M.S.) degree program in Counseling. Admission to the M.S. program is based on the following criteria:

- We advise students interested in seeking licensure to confect the 1. Baccalaureate from an accredited institution.
- 2. Minimum grade-point average (GPA) of 3.0 in last 60 semester units completed.
- 3. Minimum GPA of 3.20 in behavioral science coursework that includes courses in counseling theory; statistics; research design in the behavioral sciences; abnormal psychology; and life span human development.
- 4. Three letters of recommendation.
- 5. A personal statement in which the applicant reviews their work experience, educational background, and the purpose, and objectives involved in seeking graduate education in counseling.

Applicants should complete and return a university application form along with two copies of all college transcripts to the Admissions Office. Letters of recommendation and the personal statement may be sent directly to the Chair of the Counseling Department.

The deadlines for submission of applications is April 1st for fall admission and November 1st for spring admission. Applications received after these dates may be considered based on space availability.

Classification

Students are initially admitted to the M.S. in Counseling in Conditionally Classified status. Prior to the completion of the first nine to eleven units with grades of "B" or better, a student must complete a graduate study plan and be reviewed by the Academic Review Board for academic capability and appropriateness of personal and professional behavior. Students must also satisfactorily meet the Graduate Writing Requirements. A student is granted Classified status when the Academic Review Board files an official graduate study plan with the Office of Graduate Studies

Department Regulations

- 1. Admission to the M.S. program and course prerequisites are not enough to guarantee enrollment in Phase I courses. Students entering initial courses will be expected to pass entrance examinations, demonstrating mastery of prerequisite subject
- 2. Enrollment in a minimum of five units is required for each semester that a student is taking courses throughout the first three phases of the program. Six or more units are recommended.
- 3. All required and elective courses must be taken in a particular sequence. Check each course description for prerequisites.
- 4. Progression in and completion of the M.S. in Counseling is not based solely on successful completion of academic coursework, i.e., grades of "B" or better. Retention in the programs is also contingent upon an assessment by the faculty of student effectiveness in skill development and a demonstration of professional and ethical behavior in the classroom and in applied counseling settings. Retention is periodically reviewed by the Academic Review Board.
- 5. Undergraduate prerequisite courses may be taken at any accredited college or university.

Graduate Study Plan

Study plans specify required and elected courses for the M.S. degree. The study plan takes into account the prerequisites and sequencing of coursework as well as the concentration electives needed to meet students' credential and/or licensure goals.

The curriculum is delivered in four phases. Phase I provides students with an introduction to Counseling and the Counseling profession. Students are conditionally admitted through this phase. Phase II and III are the body of core training in Counseling and are restricted to fully classified students. Phase IV contains a number of options for specialized study in an area of concentration that leads to a credential, license, or professional certification. Entrance into Phase IV training is granted upon satisfactory review and evaluation by the Acaedmic Review Board of a student's "core counseling" ability.

Core Courses: Units
Phase I: Counseling 500, 505, 509/510, 511, 518, 519
Admission To Classified Status Process
Phase II: Counseling 520, 521, 522, 523
Core Course Sub-Total
Core Counseling Evaluation
Admission Process For Area Of Concentration
Department Regulations
Areas Of Concentration: (Choose One)
Phase IV — PPS: Counseling 517, 533, 541, 547, 548,
549, 581, 597
Phase IV — MFCC: Counseling 517, 534, 549, 561,
562, 584, 597 <u>15</u>
Total Degree Units With One Phase IV 48

No grade below a "B" is permitted for any of the 48 units on the study plan.

PUPIL PERSONNEL SERVICES (PPS) CREDENTIAL

The Department of Counseling offers a credential program in Pupil Personnel Services (school counseling) approved by the Commission for Teacher Credentialing (CTC). Employment as a counselor by a school district requires a credential issued by the CTC. Presently, it is not necessary to hold a teaching credential in order to acquire a counseling credential. The Counseling Department is authorized by law (Ryan Act) to offer this credential.

Students may obtain preparation for the PPS Credential by electing to follow Phase IV - PPS (School Counseling) for their area of concentration. They may also enroll in Phase IV (School Counseling) as a "Credential" student after they have completed the full 48unit master's degree with a concentration in Phase IV - MFCC (Marriage & Family Counseling). Enrolling as a "Credential" student after completing an M.S. degree requires re-admission to the Department of Counseling. Such credential students, upon admission, take Counseling 541, 547, 548, 533, 581, and 582. The credential requires two semesters of fieldwork/practicum experience (Counseling 581, 582). Credential students with a Masters from another institution must complete Counseling 517, 523, 526, 533, 541, 547, 548, 549, 581, and 582.

Prior to admission to fieldwork, all candidates shall have been determined to be free of a criminal record which would preclude the credential. Students are assessed on PPS competencies prior to recommendation of the PPS credential. A comprehensive examination for PPS students is administered during the same semester in which Counseling 597 is taken. Students are advised to consult with a faculty adviser for current requirements since state regulations may be revised.

MARRIAGE, FAMILY, & CHILD COUNSELOR (MFCC) LICENSURE

The Department of Counseling offers academic preparation for California Marriage, Family, & Child Counselor licensure. Students may obtain preparation for the MFCC license by electing to follow Phase IV — MFCC (Marriage And Family Counseling) for their area of concentration. All students who may wish MFCC licensure must register with the BBSE as a trainee within 90 days of starting the degree program. Forms are available in the department office. Students seeking this license should contact the Board of Behavioral Science Examiners (BBSE) for current requirements and consult with a department adviser concerning curricular content areas that meet BBSE requirements.

At the time of this writing (January, 1991) the BBSE requires a 48-unit academic preparation with specified content and training areas. Five years, maximum, is allowed for completion of academic work. Students seeking both a license and a credential should complete licensure requirements first. There are significant requirements for licensure beyond academic training, including 3000 hours of supervised internship, official state oral and written tests, and various fees and evaluations. Moreover, the requirements for licensure are subject to change without notice.

Each student seeking licensure is responsible for knowing and complying with the Board's licensing requirements. The BBSE requirements for licensure are subject to change without notice. We advise students interested in seeking licensure to contact the Board directly.

Board of Behavioral Science Examiners 1021 "O" Street, Suite A-198 Sacramento, California 94814 (916) 445-4933 or (213) 620-2814

In order to receive verification of the content areas and fieldwork practicums required for MFCC licensure, all courses must be part of the regular department program. The degree program within the CSUF Department of Counseling is designed to meet the requirements of the Business and Professions Code, Section A personal statement in which the applicant revis.76.0804

Counseling Courses

252 Career Exploration and Life Planning (3)

Exploration of personal career potentials, employment trends, decision-making, goal-setting and job search methods.

380 Theories and Techniques of Counseling (3) (Same as Human Services 380)

416 Group Process and Membership (1-3) (Formerly 316)

(Same as Human Services 416)

468 Adlerian Counseling and Lifestyle Assessment (3)

Prerequisites: Counseling 380 or equivalent and consent of instructor. Experiential process course on Adlerian counseling and lifestyle assessment with a focus on family constellation, family dynamics, and family values; personal and social development; early recollections.

470 Foundations in Counseling Research (3)

Prerequisites: upper division and Math 110 or consent of the instructor. Examination of basic concepts in quantitative analysis used in counseling research. Course makes use of SPSS to accomplish statistical calculations. Emphasis given to understanding the logic of statistical analysis. Types of analysis illustrated by examples from counseling journals.

480 Case Analysis and Intervention Techniques (3) (Same as Human Services 480)

490 Standard Counseling Models (3)

Prerequisites: upper division standing and consent of instructor. Analysis of the standard counseling models including their procedures, outcomes, rationale and ostensible utility in treating abnormal or deviant behavior.

500 The Counseling Profession (2) (Formerly 452)

Prerequisite: graduate standing. The study of counseling as a mental health profession, including its history, current functions and future directions; and an examination of the counselor as professional, including educational goals, personal values, and cultural understandings.

505 Science of Human Inquiry I (2)

Prerequisites: graduate standing and completion of Psychology 201, Psychology 202, and Psychology 408; or equivalent undergraduate courses on history and systems in psychology, social science research methodology, and statistics. Foundations and characteristics of scientific models of human inquiry. Comparative review of experimental, naturalistic, and phenomenological modes of inquiry as applied to the counseling domain. Didactics and practicum in observation methods.

509 Practicum: Master Counseling With Children & Adolescents (1)

Prerequisites: Human Services 380 or Counseling 380, Counseling 490, or equivalent. On-going master counseling with children and adolescents is presented over a twenty-five (25) hour period, including time for interactive discussion based on student observations of the master counselor/instructor.

510 Practicum: Master Counseling With Adults (1)

Prerequisites: Human Services 380 or Counseling 380, Counseling 490, or equivalent. On-going master counseling with adults is presented over a twenty-five (25) hour period, including time for interactive discussion based on student observations of the master counselor/instructor.

511 Human Relations & Human Communication (2)

Prerequisites: Counseling 500, 505, 509/510, or concurrent enrollment in these courses. Designed to assist students in developing an understanding of and the skills related to the change process and the counseling relationship. A primary emphasis is placed on the counseling interview and the developing personhood of the client and the counselor.

517 Alcohol and Substance Abuse (1)

Prerequisites: Counseling 505, 509/510, or concurrent enrollment in these courses. A survey of issues, personality factors, physiological and psychological effects, and treatment processes associated with chemical dependency.

518 Theories of Human Development and Human Functioning (3)

Prerequisites: Counseling 500, 505 or concurrent enrollment in these courses. This course integrates normal and abnormal functioning with developmental processes. Functional and dysfunctional growth processes are presented in relation to issues confronting human beings across the lifespan.

519 Therapeutic Group Experience (1)

Prerequisites: Counseling 500, 505, 509/510, or concurrent enrollment in these courses. An experiential group which is provided for counseling students as a learning and self-development process. The focus of the group is on personal growth and increasing self-awareness as a counselor-in-training.

520 Therapeutic Modes in Individual Counseling (3)

Prerequisites: Counseling 505 and 511. Conceptual understanding of individual dysfunction; integrative case study; critical evaluation of theory. Formulation of therapeutic approach in individual counseling. Evolution of personal and formal models of prac-

521 Science of Human Inquiry II (3)

Prerequisites: Counseling 500, 505, 509/510, 511. Research design, methodology, and critique of research literature, quantitative methods; microcomputer applications. Applied research methods and program evaluation. Comparative review and synthesis on inquiry approaches.

522 Counseling Inquiry/Therapeutic Process (3)

Prerequisites: Counseling 505, 520, 521 or concurrent enrollment in these courses. Methods of counseling inquiry; interviewing, testing, and observation. Therapeutic process and case monitoring. Test usage, report writing, and community referrals in treatment planning.

523 Counseling & Culture: Theory, Practice & Research (2) (Formerly 494)

Prerequisites: Counseling 520. This course provides counseling students with the theory of and research in counseling people from diverse cultural backgrounds. It also addresses the counseling issues and practice associated with helping individuals from various cultures.

526 Professional, Ethical and Legal Issues in Counseling (2) Prerequisites: Counseling 523, 520, 522. An overview of the critical profesional issues in counseling with emphasis on current ethical and legal standards. Values integration and the relationship of values to the counselor's role in practice, training, supervision, and consultation. Appraisal and research methods are discussed.

527 Systems of Family Counseling (3)

Prerequisites: Counseling 523, 520, 522. Survey of family systems models, including Adler, Satir, Bowen, Haley, Minuchin, and others.

528 Groups: Process and Practice (3)

Prerequistes: Counseling 519, 520, 522. This course will focus on the basic issues and key concepts of groups process and the practical applications of these concepts in working with a variety of counseling groups. If a real particular to the particular districts and the counseling groups.

529 Practicum: Supervised Counseling With Children & Adolescents (3)

Prerequisites: Counseling 523, Counseling 520, Counseling 521, and Counseling 522 and consent of instructor. Supervised clinical practice conducted by the counseling faculty in the service of children and adolescents. A minimum of 105 contact hours of counseling required for course completion.

530 Practicum: Supervised Counseling With Adults (3)

Prerequisites: Counseling 523, Counseling 520, Counseling 521, and Counseling 522 and consent of instructor. Supervised clinical practice conducted by the counseling faculty in the service of adults. A minimum of 105 contact hours of counseling required for course completion.

533 Career Counseling and Career Development (2)

Prerequisites: Counseling 529 and 530. An overview of the major career theories with a focus on the existing issues and emerging trends in the field of career counseling and career development. Emphasis on how career counseling is practiced by the school and college counselor.

534 Human Sexual Dysfunction (1)

Prerequisites: Counseling 529 or 530. This course is an overview of the processes associated with the diagnosis and ethical and legal treatment of sexual dysfucntion.

535 Pathology: Disorders of Thought and Language (3)

Prerequisites: Counseling 518 and consent of instructor. Phenomenology, etiology, demography and bibliography of "catatonic," "hebephrenic," "epileptic," "paranoid," "obsessive," "compulsive," "phobic" and "aphasic" clients. May be repeated for credit.

536 Pathology: Affective & Psychosomatic Disorders (3)

Prerequisites: Counseling 518 and consent of instructor. Phenomenology, etiology, demography and bibliography of "addicts," "defilers," "deprivers," "derelicts," "hypochondriacs," "neurasthenics," "anxietics" and "melancholics." May be repeated for credit.

541 Principles and Process of School Counseling (2)

Prerequisites: Counseling 520 or Counseling 529 and consent of instructor. Overview of school counseling and guidance movement with special emphasis on the role and function of the school counselor, guidance principles, techniques, and services in the school environment; analysis of the goals, organizational patterns, and structure of schools.

547 Consultation (2)

Prerequisites: Completion of Counseling 529 or Counseling 530 and consent of instructor. This course is designed to facilitate the development of knowledge and skill in consulting with individuals, groups, and systems. Focus is on theories, principles, practice and procedures in the consultation process and the management of human services and educational systems.

548 Crisis Intervention (1)

Prerequisites: Counseling 380 or equivalent and consent of instructor. This course examines the theories and techniques associated with short-term crisis intervention and subsequent referral procedures. Topics include interventions in suicide, battering, and rape as well as with clients experiencing death and dying.

549 Seminar on Child Abuse (1)

Prerequisites: Counseling 500 or equivalent, or consent of the instructor. Presents characteristics of child abuse and a review of current laws, appropriate procedures for intervention, and methods of community networking and referral.

561 Couples and Families In Process (3)

Prerequisites: Counseling 526, Counseling 527, Counseling 528, either Counseling 529 or 530, and instructor consent. Relationships and families examined in-depth; focus on communication, structural, emotional, and behavioral patterns exhibited. Examination of individual's family background; assessments of "normal" and dysfunctional family patterns emphasized. The page 1961

562 Systems Interventions in Couples and Family Relationships (3)

Prerequisites: Completion of or concurrent enrollment in Counseling 561, and consent of the instuctor. Therapeutic interventions in couples and family systems with a special focus on communication, structural, emotional, and behavioral patterns exhibited.

581 Counseling Fieldwork in Schools (3)

Prerequisites: Approval by Academic Review Board and admission to P.P.S. credential program. Supervised practice in helping troubled clients in a public school setting. A weekly casework consultation seminar. Required for counseling credential. May be repeated for credit.

582 Advanced Fieldwork (3)

Prerequisites: successful completion of Counseling 581 and approval by the Academic Review Board. Supervised practice in helping troubled clients in educational and related settings. Weekly casework consultation seminar. Required for counseling credential. May be repeated for credit.

584 Counseling Fieldwork with Couples and Families (1-6) Prerequisites: Counseling 527, 562 and approval by Academic Review Board. Supervised practice in helping troubled clients in educational, enforcement, correctional and/or health care agencies. Weekly casework consultation seminar. May be repeated for credit.

595 Competency Certification Seminar (1-3)

Prerequisite: approval by Academic Review Board. Candidates present written, live, videotape or audiotape samples to the Board of Professional Supervisors, to acquire exit skill ratings on the competencies required. May be repeated for credit.

597 Project (1-3)

Prerequisite: consent of instructor. Student invents and devises a tool, instrument or technique and reports. May be repeated for credit.

598 Thesis (1-3)

Prerequisite: consent of instructor. Writing of a thesis. May be repeated for credit.

599 Independent Research (1-3)

Prerequisite: consent of instructor. Research and development in counseling pursued independently with periodic conference with instructor. May be repeated for credit.

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Department of Educational Administration

Department Chair: Walter Beckman

Department Office: Education Classroom 529

Programs Offered

Master of Science in Education

Concentration in Educational Administration Internship in Educational Administration

Administrative Services Credential Programs

Preliminary and Professional

Faculty

Louise Adler, Walter Beckman, William Callison, Tracy Gaffey, Kenneth Preble, Stanley Rothstein

Mission

The mission of the Department is to provide leaders in the quest for excellence in education. Such leaders place the highest priority on teaching and learning, and regard their own development as a lifelong process.

INTERNSHIP IN EDUCATIONAL ADMINISTRATION

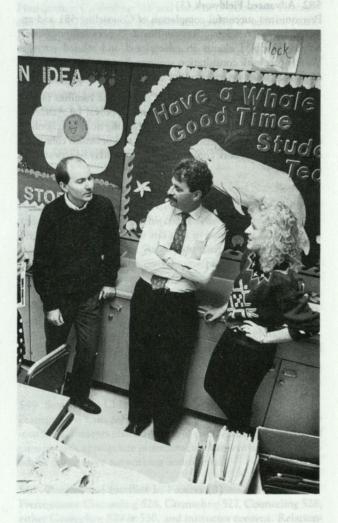
The Department of Educational Administration has a program for Interns in Educational Administration which is approved by the California Commission for Teacher Credentialing. Because regulations governing this program change, students should contact the department office for current information and requirements.

ADMINISTRATIVE SERVICES CREDENTIAL

The Administrative Services Credential programs of the Department of Educational Administration are approved by the Commission for Teacher Credentialing. Because regulations governing these programs change, students should contact the department office for current information and requirements.

Preliminary Credential

The Preliminary Administrative Services Credential is the "Step 1" administrative credential in California, requiring a total of 28-33 units of work (which may be incorporated into the student's master's degree program). Upon receipt of the Preliminary credential, one is expected to obtain administrative employment in the California public schools within 5 years.



Professional Credential

The Professional Administrative Services Credential is the "Step 2" administrative credential, requiring a total of 24 semester hours. One must complete work to earn it within 3 years of one's first administrative employment. However, it is legally permissible for the student to earn up to 50% of the units for it (i.e., 12 units) before beginning administrative employment. Please note that the Preliminary Credential is a prerequisite to entry to the program for the Professional Credential.

For Further Information

Please contact the Department office (EC-529), phone 773-3911. Cal State Fullerton is one of the first institutions of higher education in California to have both credential programs already approved and in operation. At this early stage, it is vital that you have up-to-date individual advisement in planning your program.

MASTER OF SCIENCE IN EDUCATION (EDUCATIONAL ADMINISTRATION)

The principal objective of the curriculum is to prepare carefully selected individuals for certain leadership positions in educational administration. The program is designed to help these individuals gain the technical knowledge and scholarship requisite to high achievement in these positions.

Admission to Graduate Standing: Conditionally Classified

University requirements include: a baccalaureate degree from an accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted (see "Graduate Regulations" section of this catalog for complete statement and procedures). In addition, an applicant should have a successful teaching experience in an elementary or secondary school, or community college. (If such experience is not available, other experience in related fields is a recommended alternative if approved by a graduate adviser before starting the program). A satisfactory interview and references is also required.

Graduate Standing: Classified

A student who meets the admission requirements and has a minimum 2.5 GPA in previous academic work may be granted classified graduate standing upon the development and approval of a study on Community (3)

Structure, functions, trends, fiscal responsibilities and is Study Plan state, lederal, state, or education and state, courselver and state and sta

The study plan must include 30 units of committee-approved 500-level course work. Course requirements include field experience and a project.

No more than nine units of postgraduate work taken prior to classified standing may be applied to a student's master's degree program.

Students concentrating in educational administration will take Educational Administration 503, Foundations for Administrative Leadership, as soon as they identify their interest in this degree. To continue in the program beyond this course, the student must be granted a "letter of admission to the program" and possess an official program evaluation. Students who desire only isolated courses from the program are normally denied admission to such courses. The adviser-approved 30 units (minimum) on the study plan will include:

	Valor of principles of curricular review and modification. I
Core o	course work
593 E	d Admin 503 Foundations for Administrative Leadership (3) d Admin 505 Supervision of Curriculum (3) d Admin 510 Research Design and Analysis (3)
	ntration in Educational Administration 18
Each	of the following (no grade below C):
E E E E	d Admin 561 Governance, Systems, School and Community (3) d Admin 563 School Personnel Administration (2) d Admin 564 Seminar in School Law (2) d Admin 565 Seminar in School Finance, Business Administration and Buildings (2) d Admin 588 Organization Theory and Management (3) d Admin 567A,B Fieldwork (2,2) dd Admin 597 Project (2)
One o	f the following
	Ed Admin 566 Elementary Administration and Supervision (3) Ed Admin 586 Secondary Administration and Supervision (3) Total

For advisement and further information, consult the graduate program adviser. The Adm 501 or desemble control and Ada Las leaned

Educational Administration Courses

501 Administrator Assessment (1)

Prerequisite: California Preliminary Administrative Services Credential. Assessment provides a general profile of the candidate for the California Professional Administrative Services Credential, in terms of strengths and areas for improvement. Evaluates skills and knowledge expected for the Preliminary Administrative Services Credential and introduces the Professional Credential program.

503 Foundations for Administrative Leadership (3)

Prerequisite: consent of instructor. Cultures and values to which schools must contribute. Community sociology, tax systems and public administration; the literature of leadership. Screening for admission to program. Required of all students during their first registration in school administration.

505 The Supervision of Curriculum (3)

Development of a quality program of instruction in elementary and secondary schools; appraisal of programs of instruction; advanced principles of curricular review and modification. Evaluation of subject matter competence in supervisory specialization.

510 Research Design and Analysis (3) (1) quantum [(Same as Ed Sec 510)

511 Instructional Leadership (3)

Prerequisites: California Preliminary Administrative Services Credential and Ed Adm 501 or departmental consent. Improving curriculum and instruction through management strategies, human relations skills, learning and instructional theory, educational trends and issues, and societal needs; includes planned field experience (1 unit). Meets California Professional Administrative Services Credential competency requirement (CTC)B2A(2).

Administration and faultingers (a) eggs of the Day of the Party of the

512 Application of Organizational Theory (3)

Prerequisites: California Preliminary Administrative Services Credential and Ed Adm 501 or departmental consent. Major emphases include organizational theory, evaluation, and change implementation in educational organizations. Organizational relationships, both formal and informal, are included. Includes planned field experience (1 unit). Meets California Professional Administrative Services Credential competency requirement (CTC)B2A(1).

513 Evaluation Strategies (2)

Prerequisites: California Preliminary Administrative Services Credential and Ed Adm 501 or departmental consent. Development of skills to evaluate program and curriculum, including specially funded programs. Specific emphases include assessing teaching effectiveness and pupil achievement. Includes planned field experience (1 unit). Meets California Professional Administrative Services Credential competency requirement (CTC)B2A(3).

521 Fiscal Management (2)

Prerequisites: California Preliminary Administrative Services Credential and Ed Adm 501 or departmental consent. Management of fiscal problems, such as effects of contractual obligations and district-level funding and budgeting procedures. Includes planned field experience (1 unit). Meets California Professional Administrative Services Credential competency requirement Credential and introduces the Professional Ored (CTC)B2A(6).

522 Policy Development, School Law & Political Relationships (3)

Prerequisites: California Preliminary Administrative Services Credential and Ed Adm 501 or departmental consent. Relationships between policy development and school law in the context of political, legal and societal forces affecting school practice. Includes planned field experience (1 unit). Meets California Professional Administrative Services Credential competency requirement (CTC)B2A(5). Relation bead year imiliary and sads

523 Management of Human and Material Resources (2)

Prerequisites: California Preliminary Administrative Services Credential and Ed Adm 501 or departmental consent. Staffing strategies and personnel relations management, as well as management of office, physical plant and support services. Planning for future needs. Includes planned field experience (1 unit). Meets California Professional Administrative Services Credential competency requirement.

531 Staff Development (2)

Prerequisites: California Preliminary Administrative Service Credential and Ed Adm 501 or departmental consent. Models and specific strategies for working with others in planning staff development to enhance learning and performance of adult learners (staff). Includes planned field experience (1 unit). Meets California Professional Administrative Service Credential competency requirement.

532 Cultural and Socioeconomic Diversity (2)

Prerequisites: California Preliminary Administrative Services Credential and Ed Adm 501 or departmental consent. Educational implications of demographic trends; diversity of pupil needs, values and language; building parent and community understanding/advocacy for the educational program. Includes planned field experience (1 unit). Meets California Professional Administrative Services Credential competency requirement.

533 Supervision and Evaluation of Staff (3)

Prerequisites: California Preliminary Administrative Services Credential and Ed Adm 501 or departmental consent. Analysis of supervision and staff evaluation models. Focuses on establishing supervisor-teacher rapport, observing in the classroom, teacher conferencing and writing evaluation reports. Elective course in California Professional Administrative Services Credential program. developed the developed and developed the developed the

561 Governance, Systems, School and Community (3)

Structure, functions, trends, fiscal responsibilities and issues in the government of education at federal, state, county and local school district levels. School organization and administration. Community involvement; school-community participation and communication. ence and a project.

563 School Personnel Administration (2)

Prerequisite: Ed Adm 503. School personnel management, collective negotiations and role definition.

564 Seminar in School Law (2)

Prerequisite: consent of instructor. School law as a reflection of public policy. California Education Code and the California Administrative Code, Title 5, and county counsel opinions: administration, instruction and financial management of public schools; legal basis for public education in California.

565 Seminar in School Finance, Business Administration and Buildings (2)

Prerequisite: consent of instructor. School finance, business administration and buildings and the effective educational program. Financial principles. School revenues and expenditures, budgetary procedures and processes, cost analysis, business management and salary policies.

566 Elementary Administration and Supervision (3)

Prerequisites: Ed Adm 561. Leadership roles of elementary school principal and supervisor. Pupil personnel and instructional program in elementary school; working relations and morale among staff, community and pupils; parent education; relations with central district staff; management and recordkeeping functions; teacher evaluation.

567A,B Fieldwork (2,2)

Prerequisites: Ed Adm 566 or 586. Directed fieldwork in administrative areas in school systems.

586 Secondary Administration and Supervision (3)

Prerequisites: Ed Adm 561. Leadership roles of the secondary school principal and supervisor, pupil personnel and instructional program in secondary schools; development and administration of vocational education; morale among staff; community and pupils; relations with central district staff; management functions; teacher evaluation.

588 Organization Theory and Management (3)

Public school management; planning and practice in task analysis; planning and practice in setting of goals and objectives; implementation of plans related to goals; management tools; social, political and economic forces affecting education; decision making.

593 Administering the Least Restrictive Environment (3)

The role of the administrator in providing educational programs for exceptional pupils in environments that maximize contact with non-exceptional pupils. Emphasis will be placed on the implementation of the legislative mandates of Public Law 94-142, the Education for All Handicapped Children Act, and Assembly Bill 1250.

597 Project (1-2)

Prerequisites: Ed Adm 566 or 586 and Ed Sec 510, or consent of instructor. Individual research on a graduate project, with conferences with a faculty advisor, culminating in a project. Should be taken for 1 unit each time, total of 2 units required.

599 Independent Graduate Research (1-3)

Prerequisite: consent of instructor. Independent inquiry for qualified students.

Department of Elementary and Bilingual Éducation

Chair: Carol P. Barnes

Department Office: Education Classroom 379

Programs Offered

Master of Science in Education

Concentrations:

Bilingual/Bicultural (Spanish-English), Elementary Curriculum and Instruction

Basic Teacher Credential Programs

Multiple Subjects Credential Multiple Subjects-Bilingual Emphasis Credential

Faculty

Carol Barnes, Mildred Donoghue, S. Ana Garza, Emma Holmes, Patricia Keig, Bernard Kravitz, Norma Molina, Donald Pease, Thomas Savage, Hallie Yopp Slowik, Ruth Yopp-Edwards, Beverly Young, Carmen Zunig-Hill

Professional Development Sites

The Department of Elementary and Bilingual Education, in conjunction with Placentia Unified and Fullerton school districts, has identified four elementary schools as Professional Development Sites. One block of credential students works exclusively at these sites. Students in this block are expected to engage in extensive field-based activities which are correlated with university coursework and will be given the opportunity to observe demonstration lessons and participate in late summer staff interviews as well as ongoing staff development activities.

Placentia Unified: Linda Vista (Mr. Earl Pratt, Principal) Tynes (Ms. Beth Berndt, Principal)

Fullerton:

Golden Hill (Ms. Pat Puleo, Principal) Raymond (Ms. Carolee Michael, Principal)

MULTIPLE SUBJECT (ELEMENTARY) CREDENTIAL PROGRAM

Teacher education programs at CSUF are a two-semester professional preparation sequence and a three-semester internship sequence. Either program is taken during the fourth and/or fifth year of study at the University, and each leads to a multiple subjects credential which enables individuals to teach in elementary school classes or in higher grades which have multiple subjects programs. The programs are designed to prepare teachers to teach in contemporary classrooms.



California law requires an academic major; a major in education is not permitted by law. Students devote their first three or four years of work to completing requirements for the baccalaureate degree with an academic major and, possibly, requirements for the waiver program (discussed later). Students should carefully select their academic major. Majors in the social sciences, humanities, or natural sciences provide excellent background for careers in elementary school teaching. Persons interested in working as bilingual teachers by earning a Multiple Subject Credential with a Bilingual Emphasis can consider majoring in a foreign language. Month language SAE mild Language.

Two-Semester Professional Preparation Program Sequence

The multiple subject professional preparation program is a twosemester sequence as follows:

First Semester point average on previous academic cariwollar and dorant he all

Ed Elm 430A Foundations in Elementary School Teaching (3) Ed Elm 430B Curriculum and Methods in Elementary School Teaching (1)

Ed Elm 430C Supervised Fieldwork in Elementary Teacher Education (3)

Ed Elm 433 Reading Instruction in the Public Schools (3)

Ed Elm 439A Student Teaching in the Elementary School (5)

Ed Elm 439B Seminar in Elementary Student Teaching (1)

Second Semester

Ed Elm 429 Individualized Instruction (3)

Ed Elm 430B Curriculum and Methods in Elementary School Teaching (3)

Ed Elm 439A Student Teaching in the Elementary School (10) Ed Elm 439B Seminar in Elementary Student Teaching (2)

Three-Semester Internship Program

The Three-Semester Intern Credential Program for Multiple Subjects and Multiple Subjects with a Bilingual Emphasis is a three-semester program to which candidates may apply while completing the first semester of the regular credential preparation program. Admission is contingent on approved employment with a participating district, superior standing in first semester coursework and student teaching, and recommendations from University and district personnel. The remaining two semesters would involve paid teaching internship positions and University coursework. Information about this program is available in the Credential Preparation Center.

Both the two-semester and three-semester programs entail a commitment from 7:30 a.m. to 4 p.m. Monday through Friday, plus additional time for preparation.

Admission Procedures and Criteria

Admission to the university does not include admission to the multiple subject professional preparation program. Students must apply for admission to the multiple subject credential program the semester prior to anticipated enrollment in the program. Filing deadlines are February 28 (to begin the program the following fall) and September 30 (to begin the program the following Upon completion of screekoatist program (neutrope subse. (gnings

Applications for admission into the multiple subject credential professional preparation program are evaluated according to criteria (scholarship, breadth of understanding, professional aptitude, physical and mental fitness, fundamental skills, and personality and character). Evidence in relation to criteria is submitted at time of application and include the following:

- 1. Overall grade-point average in upper-half of those students in candidate's discipline; up gotovolor hours as hat mergore of Tr
- 2. Passage of the Core Battery (General Knowledge Section) of the National Teacher Examination or completion of the Waiver Program, a program of studies at CSUF which, when completed, enables a student to apply for waiver of the examination. Information regarding the Waiver Program is available from the Credential Preparation Center in the Education Classroom Building, Room 207;
- 3. Passage of the California Basic Education Skills Test (CBEST);
- 4. Satisfactory completion of prerequisite courses:
- a. Child Dev 325, Middle Childhood (3 units), and
 - b. Ed Elm 315, Introduction to Elementary Classroom Teaching (3 units); better all transmissions of a resource A
- 5. Recommendations from academic faculty, school personnel, and/or other appropriate persons; and
- 6. Autobiography. (2) who is no noted to propose the AS seemes.

Further evidence is provided subsequent to application when opportunity is provided for the following: interview with program faculty, spelling test, speech and hearing test, tuberculosis screening, and certificate of clearance with respect to absence of criminal record.

average on previous scademic and related work. 5) language

Details concerning admission procedures and criteria are available in the Credential Preparation Center.

Admission to the first and subsequent semesters of the program is based on continuous and satisfactory progress in the prior semester.

Bilingual-Bicultural Emphasis Program

A multiple subject professional preparation program with a bilingual-bicultural (Spanish-English) emphasis is available. Information about this program is available in the Credential Preparation Center.

Application for Teaching Credentials

Upon completion of a credential program (multiple subject), the credential candidate must submit an application to the Commission on Teacher Credentialing through the Cal State Fullerton credential analyst. The credential analyst is located in the Credential Preparation Center. Additional information on the credential application process is available in the Credential Preparasonality and character). Evidence in religion to critical bus villanos

MASTER OF SCIENCE IN EDUCATION Bilingual/Bicultural Education (Spanish-English)

The program is designed to develop qualified bilingual/bicultural instructors who can work as classroom or resource teachers and teacher trainers. It will help individuals teach others how to provide experiences in the cultural heritage of the target population and develop specific teaching techniques and methods in teaching reading and English as a second language (ESL). The program will also help individuals to interpret and implement research related to bilingual/bicultural children. Individuals will become skilled in their abilities to diagnose learning problems for such students and to develop and implement sound educational strategies. California de la company de la c

Admission to Graduate Standing: Conditionally Classified

University requirements include: a baccalaureate from an accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted (see "Graduate Regulations" section for complete statement and procedures).

Graduate Standing: Classified

A student who meets the admission requirements and the following requirements may be granted classified graduate standing: 1) the development of an approved study plan; 2) a basic teaching credential or equivalent experience; 3) an approved major (minimum of 24 units upper division or graduate); 4) a 2.5 grade-point average on previous academic and related work; 5) language competence (English and Spanish) as determined by satisfactory interviews or course work; 6) completion of Spanish 466. Credit will be given for previous postbaccalaureate studies when possible. Otherwise well-qualified students may be admitted with limited subject or grade deficiencies, but these deficiencies must be removed. Grade-point average deficiencies may be removed by a demonstration of competency in the graduate program.

Study Plan

The adviser-approved 30 units (minimum) on the study plan will include the following:

Core course work 9
Ed Elm 511 Survey of Educational Research (3) Ed Elm 500 Bilingual-Bicultural Curriculum (3) Ed Elm 541 Psychological and Sociological Foundations of Bilingual-Bicultural Education (3)
Required teacher education course d
Ed Elm 542 Current Issues and Problems in Bilingual-Bicultural Education
Course work outside bilingual-bicultural education 12
Chicano 431 The Chicano Child (3) Chicano 445 History of the Chicano (3)
One of the following:
For Lang Ed 443A Principles of Teaching English to Speakers of Other Languages (3) For Lang Ed 443B Principles of Teaching English to Speakers of other Languages (3)
One of the following:
For Lang Ed 527 Theorgy of Bilingual Language Acquisition (3) For Lang Ed 595 Curriculum and Program Design for TESOL (3)
Elective selected with approval of adviser
Culminating experience
One of the following:
Ed Elm 594 Research Seminar (3) or Ed Elm 597 Project (3) or Ed Elm 598 Thesis (3) a statement of the sta
Of appleting the first semester of the regular stinu latol preparation
For further information consult the graduate program adviser.
MASTER OF SCIENCE IN EDUCATION Elementary Curriculum and Instruction
The program is designed to help career classroom teachers upgrade their skills, become informed about new ideas in elementary teaching, and prepare for curriculum and instructional leadership in elementary classroom teaching, early childhood educations.

tion, staff development, and computer education in public and private schools. Students may follow the study plan outlined

cin Units law requires an academic major, a major in education

below for the concentration in Elementary Curriculum and Instruction or they may elect to specialize in one of four emphasis areas: Staff Development/Mentor Teacher, Early Childhood Education, Computer Education, and Diversity.

Admission to Graduate Standing: Conditionally Classified

University requirements include a baccalaureate from an accredited instruction and a grade-point average of at least 2.5 in the last 60 semester units attempted (see "Graduate Regulations" for complete statement and procedures).

Graduate Standing: Classified

A student who meets the admission requirements and the following requirements may be granted classified graduate standing upon the development of an approved study plan; a basic teaching credential or equivalent experience, and an approved major (minimum of 24 units upper division or graduate), a 2.5 gradepoint average on previous academic and related work. Credit will be given for previous postbaccalaureate studies when possible. Otherwise well-qualified students may be admitted with limited subject or grade deficiencies, but these deficiencies must be removed. Grade-point average deficiencies may be removed by a demonstration of competency in the graduate program.

Study Plan

The adviser-approved 30 units (minimum) on the study plan will include the following:

merade the following.
Ed Elm 530; Graduare Studies in Elementary 13 ba
Stinu Educations Second Languages (Alama) advictori
Core course work
Education: Language Arts (3) (E) manual Company
Ed Elm 511 Survey of Educational Research (3)
Ed Elm 529 Graduate Studies: Learning Theory for
Classroom Use (3)
Ed Elm 536 Curriculum Theory and
Development (3)
Ed Elm 535 Graduate Studies in Elementary con
Course work in concentration
Ed Elm 537 Graduate Studies Current Issues

One of the following:

Ed Elm 521 The Study of Teaching (3) Ed Elm 527 Graduate Seminar in Developmental Psychology: The Human from Conception Through Eight Years (3) Ed Elm 528 Reading in Early Childhood (3) Ed Elm 538 Graduate Studies: Early Childhood Education (3) Ed Elm 539 Clinical Supervision: Analyzing Effective Teaching (3) Ed Elm 553 Models of Teaching (3)

Three of the following:

Ed Elm 530 Graduate Studies in Elementary	
Education: Second Languages (3)	
Ed Elm 531 Graduate Studies in Elementary	
Education: Language Arts (3)	
Ed Elm 532 Graduate Studies in Elementary	
Education: Mathematics (3)	
Ed Elm 533 Graduate Studies in Elementary	
Education: Science (3)	
Ed Elm 534 Graduate Studies in Elementary	
Education: Social Studies (3)	
Ed Elm 535 Graduate Studies in Elementary	
Education Reading (3)	
Ed Elm 537 Graduate Studies: Current Issue	
and Problems (3)	
Electives selected with approval of the adviser	6
Culminating experience	3
One of the following: (E) and appropriate	
Ed Elm 594 Research Seminar (3)	
or Ed Elm 597 Graduate Project (3)	
or Ed Elm 598 Thesis (3)	
The same same of the same same same same same same same sam	-
Total	C
For further information, consult graduate program adviser.	

For further information, consult graduate program adviser.

MASTER OF SCIENCE IN EDUCATION Elementary Curriculum and Instruction Emphasis in Early Childhood Education

This emphasis is designed to meet the greater community and professional awareness of the importance of quality education during the critical early years of school. The educational demand for sound planning and instruction in preschool, kindergarten, and the primary grades has increased the need for effective specialists in Early Childhood Education.

Admission to Graduate Standing: Conditionally Classified/ Classified

The requirements for admission to conditionally classified or classified standing are the same as for the M.S. in Education concentration in Elementary Curriculum and Instruction.

Study Plan: Early Childhood Education

Core Course Work

The adviser-approved 30 units (minimum) on the study plan will MASTER OF SCIENCE IN EDUCAL spriwollof and abulani

Core Course work	signification of pendicap, a minding and
Ed Elm 511	Survey of Educational Research (3)
Ed Elm 529	Graduate Studies: Learning Theory for
Classroom	Use (3) 191100 bonsesbour of states relation
Ed Elm 536	Curriculum Theory and Development (3)

Coursework in Early Childhood Emphasis9	Admission to Graduate Standing: Conditionally Classified/Classified
Ed Elm 528 Reading in Early Childhood (3) Ed Elm 538 Graduate Studies: Early Childhood Education (3)	The requirements for admission to conditionally classified or classified standing are the same as for the M.S. in Education concentration in Elementary Curriculum and Instruction.
Ed Elm 527 Graduate Seminar in Developmental	Admission to Cradilate Standing Conditionally Classified
Psychology: The Human from Conception through Eight Years (3)	Study Plan
or Ed Elm 591 Fieldwork and Seminar in Early Childhood	The adviser-approved 30 units (minimum) on the study plan will include the following:
For Emil 20 + Graduate Studies of Clementary	Units
Curriculum-Focused Coursework	Core Course Work
Two of the following: (1) salbase samples (1) and 14 mill 14	Ed Elm 511 Survey of Educational Research (3) Ed Elm 529 Grad Studies: Learning Theory for Classroom
Ed Elm 521 The Study of Teaching (3)	does. Use (3) and white belongs made transposes bed now
Ed Elm 530 Grad Studies in Elem Ed:	Ed Elm 536 Curriculum Theory and Development (3)
Second Languages (3)	Coursework in Staff Development/Mentor Teacher Emphasis 9
Ed Elm 531 Grad Studies in Elem Ed:	eldiason mark a subjute an animal pool discovering to larger the subjute and market and
Language Arts (3) Ed Elm 532 Grad Studies in Elem Ed:	Ed Elm 539 Clinical Supervision: Analyzing Effective
Mathematics (3)	Teaching (3)
Ed Elm 533 Grad Studies in Elem Ed:	Ed Elm 553 Models of Teaching (3)
Science (3)	Ed Elm 521 The Study of Teaching (3)
Ed Elm 534 Grad Studies in Elem Ed:	A CONTRACTOR OF THE STATE OF TH
Social Studies (3)	Curriculum-Focused Coursework6
Ed Elm 535 Grad Studies in Elem Ed:	The advisor-approved 30 on its (namentum) out the paying July will
Reading (3)	Two of the following:
Ed Elm 537 Grad Studies: Current Issues and Problems (3)	Ed Elm 530 Graduate Studies in Elementary
Limburg in Early Chatchood Sancation	Education: Second Languages (3)
One elective approved by advisor	Ed Elm 531 Graduate Studies in Elementary
modestonal awareness to rive importance toll quality and section	Education: Language Arts (3)
Culminating Experience	Ed Elm 532 Graduate Studies in Elementary
	Education: Mathematics (3)
One of the following:	Ed Elm 533 Graduate Studies in Elementary Education: Science (3)
cialists in Early Childhood Education	Ed Elm 534 Graduate Studies in Elementary
Ed Elm 594 Research Seminar (3)	Education: Social Studies (3)
or Ed Elm 597 Project (3)	Ed Elm 535 Graduate Studies in Elementary
or Ed Elm 598 Thesis (3)	Education: Reading (3)
Total	Ed Elm 537 Graduate Studies: Current Issues
	and Problems (3)
For further information, consult the graduate program adviser.	One elective appproved by advisor
MASTER OF SCIENCE IN EDUCATION Elementary Curriculum and Instruction	Culminating Experience
Emphasis in Staff Development	One of the following:
This program is designed to enable educators to assume leader-	
ship roles in staff development in school districts. The sequence	Ed Elm 594 Research Seminar (3)
of courses is also designed to help mentor teachers and potential	or Ed Elm 597 Project (3) or Ed Elm 598 Thesis (3)
mentor teachers to understand contemporary trends and research	
findings in elementary curriculum and instruction.	Total 30

MASTER OF SCIENCE IN EDUCATION Elementary Curriculum and Instruction **Emphasis** in Computer Education

This emphasis is designed to foster and articulate research on the integration of computer-based technology into general elementary curriculum. The sequence of courses will help teachers who provide on-site and district-level leadership for public schools engaged in re-training teachers for computer eduation.

The requirements for admission to conditionally classified and classified standing are the same as those for the M.S. in Education concentration in Elementary Curriculum and Instruction.

Study Plan to learning credental or candidacy to talkings and

The study plan consists of 30 units of adviser-approved

Units

Core Course Work	9
Ed Elm 511 Ed Elm 529 Use (3)	Survey of Educational Research (3) Grad Studies: Learning Theory for Classroom
Ed Elm 536	Curriculum Theory and Development (3)
Coursework in Con	mputer Education Emphasis
Ed Elm 415 Classroom	Microcomputers in the Elementary (3)
Ed Elm 515 Logo (3)	Problem Solving Strategies Including
Ed Elm 516 into the C	Integrating Elementary School Software urriculum (1)
THE RESIDENCE OF THE PARTY OF T	

Two from the following:

Computers (3)

Ed Elm 512 Improving Elementary Students' Writing with Microcomputers (1)

Ed Elm 517 Practicum: Elementary School Teachers and

430B Carriculum and Methods in Elemen

Ed Elm 513 Teaching Utilities for Elementary School Teachers (1)

Ed Elm 514 Strategies for Using Data Base Management with Elementary Children (1) whom bearings 2014

Ed Elm 518 Telecomputing for Elementary School Teachers (1)

Curriculum-Focused C	ourse	Work		 I.S	10	Q		P		3.	*	. 0	6	

Ed Elm 532 Grad Studies in Elementary Education: Mathematics (3)

Ed Elm 533 Grad Studies in Elementary Education: Science (3)

Ed Elm 534 Grad Studies in Elementary Education: Social Studies (3)

Ed Elm 535 Grad Studies in Elementary Education: Reading (3)

Ed Elm 537 Graduate Studies: Current Issues and Problems (3)

Culminating Experience	Err. Alvisor Africad Electron.
One of the following:	Culminating Experience

Ed Elm 594 Research Seminar (3) or Ed Elm 597 Graduate Project (3) or Ed Elm 598 Thesis (3)

MASTER OF SCIENCE IN EDUCATION Elementary Curriculum and Instruction Emphasis in Diversity

The Diversity emphasis is designed to help career classroom teachers become informed about appropriate curriculum and instruction for the changing student population in the public schools in the state of California. It will help individuals to provide educational experiences and develop curriculum appropriate to culturally diverse populations.

Admission to Graduate Standing: Conditionally Classified/

The requirements for admission to conditionally classified and classified standing are the same as those for the M.S. in Education concentration in Elementary Curriculum and Instruction.

Study Plan

Core Course	Work	9	9
Ed Elm	511	Survey of Educational Research (3)	

Ed Elm 529 Grad Studies: Learning Theory for Classroom Use (3)

Ed Elm 500 Bilingual-Bicultural Curriculum (3)

Diversity Emphasis Course Work 9 Ed Elm 530 Graduate Studies in Elementary Education: Second Languages (3)

Ed Elm 541 Psychological and Sociological Foundations of Bilingual Education (3)

Ed Elm 542 Current Issues and Problems in Bilingual Bicultural Education (3)

Two of the following:

Ed Elm 531 Graduate Studies in Elementary Education: Language Arts (3)

Ed Elm 532 Graduate Studies in Elementary Education: Mathematics (3)

Ed Elm 533 Graduate Studies in Elementary Education: Science (3)

Ed Elm 534 Graduate Studies in Elementary Education: Social Sciences (3)

Ed Elm 535 Graduate Studies in Elementary Education: Reading (3)

One Advisor-Approved Elective	
Culminating Experience	Day of the Kellstwine
Ed Elm 594 Research Seminar (3)	Ed Elia 594 R
or Ed Elm 598 Thesis (3)	
	un Epila Childhood
Total	

COMPUTING CERTIFICATE FOR ELEMENTARY SCHOOL TEACHERS

The purpose of this certificate program is to provide participants with a broad understanding of the applications of microcomputers in the elementary school classroom and the instructionally related tasks in the public schools. The certificate program is designed to provide the needed competencies for participants to become curriculum specialists who will guide the integration of computers into the elementary school curriculum, their uses in instruction, and their applications in instructionally related activities at the elementary school.

Required courses (13 units)

Ed Elm 415 Microcomputers in the Elementary School (3 units)

Ed Elm 515 Problem Solving Strategies Including Logo (3 units)

or Course in BASIC for Elementary School Teachers

Ed Elm 516 Integrating Elementary School Software into the Curriculum (1 unit) Alargo 18 002 ml3 53

Ed Elm 517 Practicum: Elementary School Teachers and Computers (3 units) And sense Computers (3 units)

Elective courses selected from the following list (2 units)

Ed Elm 512 Improving Elementary Students' Writing with Microcomputers (1 unit)

Ed Elm 513 Teaching Utilities for Elementary School Teachers (1 unit)

Ed Elm 514 Strategies for Using Data Base Management with Elementary Children (1 unit) wolfer and to owl

Ed Elm 518 Telecomputing For Elementary School Teachers (1 unit) as hard standard 123 mil 14

Language Arts (3) tre-motoreyed flat8 of sistilgm3
3d Elm 532 Graduate Studies in Elementary Education: Total required units: 15 units (12 of which must be taken at California State University, Fullerton).

For further information, consult graduate program adviser.

Elementary and Bilingual Education Courses

315 Introduction to Elementary Classroom Teaching (3) Prerequisite: Psych 101. An exploratory course for students considering careers in elementary school teaching. Elementary classroom field assignments (4 hours weekly), on-campus seminars (2 hours weekly) and screening procedures for admission to Multiple Subject Credential. Topics include careers, curriculum, classroom management. Must be taken Credit/No Credit. A "B" or

better is required to receive a grade of credit.

tion concentration in Elementary Curriculum and In

415 Microcomputers in the Elementary Classroom (3)

Prerequisite: teaching credential or candidacy for credential. Uses of microcomputers in elementary classroom. Development of computer related instructional materials for elementary schools. Evaluation of programs/equipment suitable for elementary children. Examination of issues involved in microcomputers in elementary schools.

429 Individualized Instruction (1-3)

The principles and operational components of individualized teaching and learning. Classroom implementation of individualized instructional strategies. May be repeated for a maximum credit of 3 units. Must be taken Credit/No Credit. A "B" or better is required to receive a grade of credit.

430A Foundations in Elementary School Teaching (3)

Prerequisite: admission to teacher education. Children's learning styles, and their overall growth and development. To be taken concurrently with Ed Elm 430B, C and 433. Must be taken Credit/ No Credit. A "B" or better is required to receive a grade of credit.

430B Curriculum and Methods in Elementary School Teaching (1-2) Mathematics (3) and wolld add most owl

Prerequisite: admission to teacher education. Elementary school curricula, instructional materials, and teaching techniques. To be taken concurrently with Ed Elm 430A,C, and 433. Must be taken Credit/No Credit. A "B" or better is required to receive a grade of credit. Ondesse Studies in Eleggy and and

Ed Elm 514 Strategies for Using Data Base Winagement 430C Supervised Fieldwork in Elementary Teacher Education (2) Electronic for Electronic (2)

Prerequisite: admission to teacher education. Corequisites: Ed Elm 430A, B and 433. Students will serve as teacher participants in an assigned elementary school classroom. Must be taken Credit/No Credit. A "B" or better is required to receive a grade of

431 Curriculum and Instruction for Diverse Populations in Elementary Schools (1)

Prerequisite: candidate for or holder of basic teaching credential. Effective integration of curriculum and instruction relating to linguistic and cultural diversity in elementary school students.

433 Reading Instruction in Public Schools (3)

Prerequisite: admission to teacher education. Experiences in the teaching of reading in which students will demonstrate the behavior necessary to work with children in public schools. Must be taken Credit/No Credit. A "B" or better is required to receive a grade of credit.

537 Geoducte Studies: Current Issues and Problems (3)

439A Student Teaching in the Elementary School (4-12)

Prerequisites: Ed Elm 430A, B, C, 433 and admission to student teaching. Corequisite: Ed Elm 439B. Participation in a regular elementary school teaching program for the full school day. Must be taken Credit/No Credit. A "B" or better is required to receive a grade of credit. o research or consent or tenedulative research

439B Seminar in Elementary Student Teaching (1-3)

Prerequisites: Ed Elm 430A, B, C, 433 and admission to student teaching. Corequisite: Ed Elm 439A. Seminar in problems and procedures of elementary school teaching. Must be taken Credit/No Credit. A "B" or better is required to receive a grade of

499 Independent Study (1-3)

Prerequisites: senior or graduate standing, consent of instructor prior to registration. Individual investigation under supervision of a faculty member. Only students of demonstrated capability and maturity will be approved. May be repeated for credit.

500 Bilingual-Bicultural Curriculum (3)

Identification and development of bilingual-bicultural curricula relative to Spanish-speaking students. Adaptation and modification of existing curricula. Development of units of instruction for use in bilingual-bicultural classrooms.

511 Survey of Educational Research (3)

Descriptive statistics and statistical inferences in educational research. Representative research papers. Principles of research design. Prepare papers using research findings.

512 Improving Elementary Students' Writing with Microcomputers (1)

Prerequisites: Ed Elm 415 and teaching credential or permission of instructor. Strategies for facilitating functional and creative writing of elementary children through use of microcomputer. Emphasis on keyboarding, word processing, and writing processes of children. Evaluation of current practices and research findings.

513 Teaching Utilities for Elementary School Teachers (1)

Prerequisites: Ed Elm 514 and teaching credential or permission of instructor. Strategies for improving teaching of elementary students through use of gradebook programs, word search generators, test generators, graphic programs, and instructional management software programs on microcomputers.

514 Strategies for Using Data Base Management with Elementary Children (1)

Prerequisites: Ed Elm 415 and teaching credential or consent of instructor. Strategies for elementary school teachers to develop and use data base management with children. Fact finding, classification, inferences, and generalizations considered. Design continuum of data base competencies for children.

515 Problem Solving Strategies Including Logo (3)

Prerequisites: Ed Elm 415 and teaching credential or permission of instructor. Strategies for using logo graphics, words and lists, and other microcomputer problem-solving applications with elementary school children. Design and use of microworlds to facilitate children's development of problem-solving skills.

516 Integrating Elementary School Software into the Curriculum (1)

Prerequisites: Ed Elm 415 and teaching credential or consent of instructor. Effective integration of elementary school software into the curriculum of elementary schools. Emphasis on integration into current goals of elementary school instruction. Evaluation of current computer instruction. (E) ANA SERVENE.

517 Practicum: Elementary School Teachers and Computers (3)

Prerequisite: Ed Elm 516. Strategies for effectively using computers with elementary school children to improve learning; course includes field work assignments in elementary schools, and on-532 Graduate Studies in Elementary Educatsranims sugmes

518 Telecomputing for Elementary School Teachers (1)

Prerequisites: Ed Elm 415 and teaching credential or permission of instructor. The fundamentals of using a microcomputer as a communication tool. Topics include a review and demonstration of remote information systems, use of terminal program, process of computer communication, and strategies for teaching elementary students about computer-based telecommunications systems.

521 The Study of Teaching (3)

Prerequisite: Ed Elm 511 and teaching credential or permission of instructor. A systematic study of the teaching process. Examination of the research methodology used to analyze teaching, the current knowledge of the association between teaching processes and student learning, and the implications of the research for the research developments and materials, criteria for plann, moorses

527 Graduate Seminar in Developmental Psychology: The Human from Conception Through Eight Years (3)

Prerequisites: teaching credential or consent of instructor. The physical, social, cognitive-intellectual, and emotional development of individuals from conception to middle childhood. Current problems, theories and research.

528 Reading in Early Childhood (3) (Formerly 441)

Prerequisite: teaching credential or consent of instructor. Seminar: significant research, curriculum developments and materials, and current instructional strategies for promoting emergent literacy in children.

529 Graduate Studies: Learning Theory for Classroom Use (3)

Major theoretical positions in planning and interpreting classroom practices. Educational research findings, implications for curriculum development and teaching practices.

530 Graduate Studies in Elementary Education: Second Languages (3)

Prerequisites: teaching credential or consent of instructor. Seminar: significant research, curriculum developments and materials, and criteria for planning and improving second language programs including those for English as a second language.

531 Graduate Studies in Elementary Education: Language Arts (3)

Prerequisite: teaching credential or consent of instructor. Seminar: significant research, trends and problems in teaching the fundamental skills of communication; curriculum developments and materials, and criteria for planning and improving language arts programs.

532 Graduate Studies in Elementary Education: Mathematics (3)

Prerequisites: teaching credential or consent of instructor. Seminar: significant research, curricular developments and materials, criteria for planning and improving mathematics programs and instruction.

533 Graduate Studies in Elementary Education:

Science (3)

Prerequisite: teaching credential or consent of instructor. Seminar: research in elementary school science. The development of

534 Graduate Studies in Elementary Education: Social Studies (3)

Prerequisite: teaching credential or consent of instructor. Seminar: research developments and materials, criteria for planning and improving social studies programs, and current techniques of teaching.

535 Graduate Studies in Elementary Education: Reading (3)

Prerequisite: teaching credential or consent of instructor. Seminar: research developments and materials, criteria for planning and improving reading programs, and current instructional strategies.

536 Curriculum Theory and Development (3)

Prerequisite: teaching credential or consent of instructor. Seminar: the school curriculum including the forces operating on the curriculum and the participants involved in curriculum building. The process of curriculum building.

537 Graduate Studies: Current Issues and Problems (3)

Prerequisite: teaching credential or consent of instructor. Problems and issues in elementary education, their causes and possible solutions.

538 Graduate Studies: Early Childhood Education (3)

Prerequisite: teaching credential or consent of instructor. Seminar: Application of significant research in the education of young children. Current instructional strategies and criteria for planning and improving programs in early childhood education.

539 Clinical Supervision: Analyzing Effective Teaching (3)

Prerequisite: teaching credential or consent of instructor. A systematic, research-based approach. Identifies basic components needed by teachers, staff developers, and administrators to improve their instructional skills. Includes principles of learning applied to supervision and applied practice in analyzing the instructional process.

541 Psychological and Sociological Foundations of Bilingual-Bicultural Education (3)

Application of psychological and sociological theory and techniques to the design of programs of instruction for limited and non-English-speaking children. The use of these disciplines for the development of emotionally and socially supportive learning environments.

542 Current Issues and Problems in Bilingual-Bicultural Education (3)

Problems and issues in the development and implementation of bilingual-bicultural education.

553 Models of Teaching (3)

Prerequisite: teaching credential or consent of instructor. Explores varied strategies of instruction, culminating in the identification and study of sixteen unique "models". Examines relationships among theories of learning and instruction. Investigates various instructional alternatives.

591 Fieldwork and Seminar in Early Childhood (3)

Prerequisite: Ed Elm 538 or consent of instructor. Provides opportunity to demonstrate instructional abilities in working with young children. Also provides opportunity to work with parents, professionals, and members of the community in early childhood programs.

594 Research Seminar (3)

Prerequisite: consent of instructor. The preparation, evaluation, development, and presentation of curriculum research proposals culminating in a graduate project. Individuals and groups will participate in critiquing proposals, curriculum projects, and research results.

597 Project (1-3)

Prerequisite: consent of instructor. Individual research on an empiricial project, with conferences with the instructor, culminating in a project.

598 Thesis (1-3)

Prerequisite: consent of instructor. Individual research with conferences with the instructor, culminating in a thesis.

599 Independent Graduate Research (1-3)

Prerequisites: a teaching credential and one year of teaching experience. Independent inquiry.

Department of Health, Physical Education development, and presentation of curriculum research proposals culminating in a graduate project. Individuals and groups will participate in critiquing proposals, curriculum projects, and re and Recreation

Department Chair: Anne Marie Bird Department Office: Physical Education 134

Programs Offered

Bachelor of Science in Physical Education

Minor in Health Promotion

Minor in Physical Education

Master of Science in Physical Education

Athletic Training Certification Program

Single Subject Waiver Program in Physical Education for the Ryan Single Subject Credential

Adapted Physical Education Emphasis Credential

Faculty

Gene Adams, C. Ian Bailey, Jean Barrett, William Beam, Anne Marie Bird, Margaret Elliot, Steven Estes, M. William Fulton, Eric Hanauer, Kathleen Koser, Linda Randall, Kenneth Ravizza, Roberta Rikli, Diane Ross, Virginia Scheel, Diana Shakarian, Eula Stovall, Danny Too, Carol Weinmann, Ronald Witchey, Michael Yessis

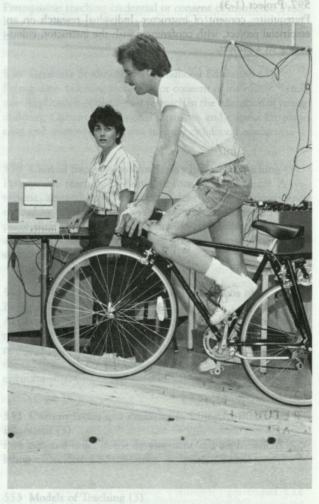
Advisement

Undergraduate and graduate students are required to seek academic advisement prior to their first registration at CSUF and continuously until completion of their degree programs. Students are assigned a full-time faculty member for academic advisement and graduation checks. Students may come to, or telephone, the department office for further information.

Transfer students should see an adviser immediately regarding transfer credit. For information on general education, consult the Academic Advisement Center.

INTRODUCTION

The primary mission of the department is to advance and disseminate knowledge created through the study of human movement, of leisure needs and interests, and of total health which includes physical, mental, social and emotional dimensions. The secondary mission focuses on: (1) development of knowledges and skills essential for entry into a variety of occupations, (2) development of opportunities for participation in internships or cooperative education work experiences related to academic study, and (3) development of attitudes and behaviors appropriate for promotion and maintenance of personal and environmental health.



STUDENT AWARDS

Awards are presented each year to an upper-division, a postbaccalaureate, and an educational equity student.

BACHELOR OF SCIENCE IN PHYSICAL EDUCATION

The Department of Health, Physical Education and Recreation offers the Bachelor of Science in Physical Education for students preparing to teach, to pursue graduate work in physical education and for careers in business, industry and government service.

The degree consists of 124 units with a maximum of 12 lower division units and a minimum of 33 upper division units in physical education. Each course counted toward the major must be completed with a grade of C or higher. All courses counted toward the major must be taken on an Option 1 (letter grade) Basis. The following specific course work: (or equivalent): . size

Transfer students must request two copies of transcripts of records of all previous scholastic work from each university or college attended. These transcripts must be sent by the issuing institution directly to the Office of Admissions.

All transfer students must have transcripts evaluated by a department undergraduate adviser prior to registration.

Lower-Division Requirements (Maximum of 12 units)

Required Courses

Physical Ed 260 Movement Anatomy (3)

(General human anatomy courses may not be substituted for this requirement. However, such courses are highly recommended.)

A minimum of six courses, one from each of the following areas:

Fitness: Physical Ed 100, Physical Conditioning; 102, Jogging; 144, Aerobic Exercise Weight Control; 146, Body Building.

Aquatics: Physical Ed 110, Swimming; 111, Life Saving; 112, Water Polo; 214A, Basic Scuba; 214B, Intermediate Scuba.

Combatives: Physical Ed 150, Wrestling; 151, Aikido; 152, Karate; 154, Self-Defense; 155, Fencing.

Individual Sports: Physical Ed 105, Cycling; 117, Bowling; 118, Archery; 119, Golf; 120, Gymnastics; 122, Sailing; 246A, Basic Hatha Yoga.

Court/Racquet Sports: Physical Ed 130, Badminton; 131, Tennis; 132, Racquetball.

Team Sports: Physical Ed 161, Slow Pitch Softball; 164, Volleyball; 165, Soccer; 167, Basketball.

(An intercollegiate sports course may be applied in the appropriate area.) TEACHING CREDENTIAL - REQUIREMENTS FOR

A maximum of 12 lower-division units may be counted toward completion of the major. However, students may elect to take upper-division work in lieu of further lower-division work excluding requirements stated above. All work taken at other institutions as lower-division work must be counted as such at CSUF.

Upper-Division (Minimum of 33 units)

Required Courses (18 units)

Physical Ed 300 Principles of Movement

Physical Ed 352 Physiology of Exercise (352L optional)

Physical Ed 371 Theory and Principles of Human Motor Learning (371L optional) TOMOSS HTLASH VI SOVIM

or Physical Ed 383 Sport Psychology

Physical Ed 380 History of Physical Ed and Sport

or Physical Ed 382 Philosophical Perspectives of Human Movement

Physical Ed 381 Human Movement in Cultural Perspective or Physical Ed 384 Sport Sociology

and three units selected from courses Physical Ed 371, 380, 381, 382, 383, 384 which have not been used to meet the above requirements.

Required Courses (1 2 units) to remain Electives (Minimum 15 units)

Upper-division physical education courses to complete the required 45 units for the major to be selected under advisement.

Academic planning can lead to many career opportunities. Advisers' office hours for obtaining information on the various opportunities are available in the department office. Students are encouraged to contact the adviser in the area of choice. Career opportunities are available in:

Adult Fitness/Health Promotion and an engineering monomora

Coaching

Elementary and Secondary Teaching Certification and application

Health Sciences of the service approved accuracy of the minor adviser, from approved accuracy of the minor adviser, from approved accuracy of the minor adviser.

Human Performance Factors | sldeliges and motionion dilend

Humanities Arts

Physical Education for the Handicapped

MINOR IN PHYSICAL EDUCATION AS A ROUTE

Sport and Exercise Management

Sports Careers with a view nonasuba lesisted in show assuos

division units. Course work must be completed aniibed stroq2

English Proficiency Requirement

In order to satisfy the upper-division writing requirement of the university, physical education majors must pass: (1) Physical Ed 301, Writing Styles for Human Movement Studies, with a grade of C or better; and (2) The Cal State Fullerton Examination in Writing Proficiency (EWP). I to you lowed 9 128 bill leaved 9

Note: Physical Ed 301 cannot be counted as a part of the physical education major, but may count toward general elective units in the 124 unit graduation requirement.

Please see additional information provided in this catalog on the writing requirement. All SAY all be select three from Physical Ed SAY all select three from Physical Ed SAY

Performance Proficiency Requirements

Performance courses should be taken to meet the prerequisite requirements for any analysis series course. Proficiency screening tests are administered in the analysis classes at the beginning of the semester.

MINOR IN HEALTH PROMOTION

The department offers a minor in health promotion consisting of 21 units, with a minimum of 12 upper-division units selected in consultation with the minor adviser. The minor in health promotion is offered within a conceptual framework of holism, and may be of interest to students preparing for careers in teaching and health care or helping professions, as well as to students with a personal interest in health enhancement. Course work must be taken on an Option 1 (letter grade) basis and completed with a C grade or better to be counted toward the minor.

Required Courses (12 units)

Chemistry 111 Nutrition and Drugs (3) or approved nutrition course (2-3)

Health Sci 101 Personal Health (3)

or Health Sci 321 Drugs and Society (3)

Health Sci 301 Promotion of Optimal Health (3)

Health Sci 355 Health Education for Teachers (3)

Electives (9 units)

Students may elect to take (up to a maximum of 3 units) performance courses which emphasize the application of basic health promotion principles in the student's own life: Physical Ed 100, 102-167, 246A, 246B; Dance 122, 126, 132, 142, 222, 232.

Students shall choose additional elective units, with approval of the minor adviser, from approved courses of specific relevance to health promotion (list available in department office, Physical Ed 134).

MINOR IN PHYSICAL EDUCATION

A physical education minor consists of 22 units of approved course work in physical education with a minimum of 19 upper division units. Course work must be completed with a grade of C or higher. All courses counted toward the minor must be taken on an Option 1 (letter grade) basis.

Required Courses (13 units)

Physical Ed 260 Movement Anatomy (3)

Physical Ed 300 Principles of Movement (3)

Physical Ed 352 Physiology of Exercise (3)

Select one from Physical Ed 303-319 Analysis of Sport (2)

Select one from Physical Ed 320-338 Techniques of Coaching (2)

Electives (9 units)

Select three from Physical Ed 349, 371, 380, 381, 382, 383.

ATHLETIC TRAINING CERTIFICATION

Athletic Training Certification accredited by the National Athletic Trainers Association must be earned in conjunction with a major in physical education. Upon successful completion of the specific requirements listed below, the student must apply through the department to the National Athletic Trainers Association for the certification examination.

- 1. A bachelor's degree with a major in physical education with a GPA of at least 2.5 overall; 3.0 in the major; and 2.5 in biological science.
- 2. CPR card (yearly) and current first aid card.
- 3. The following specific course work (or equivalent):

Biology 361 Human Anatomy (4)

Biology 362 Mammalian Physiology (4)

or Biology 310 Human Physiology (3)

Physics 211A Elementary Physics (3)

or Chemistry 100 Survey of Chemistry (3)

Chemistry 111 Nutrition and Drugs (3)

Health Sci 101 Personal Health (3)

Health Sci 102 Prevention and First Aid (2)

Physical Ed 200 Introduction to Athletic

Training (3)

Physical Ed 260 Movement Anatomy (3)

Physical Ed 300 Principles of Movement (3)

Physical Ed 348 Physiology of Exercise (3)

Principles of Conditioning (3) Physical Ed 351

Physical Ed 365 Prevention and Care of Athletic

Injuries (3)

Physical Ed 366 Advanced Prevention and Care of Athletic Injuries (3)

Physical Ed 367 Therapeutic Modalities and Exercise Rehabilitation (3)

Physical Ed 371 Theory and Principles of Human Motor Learning (3)

Physical Ed 383 Sport Psychology (3)

Physical Ed 451 Sports Medicine (3)

Physical Ed 496 Practicum (6) (1,200 clock hours)

Recommended courses:

Advanced First Aid

Health Sci 321 Drugs and Society (3)

TEACHING CREDENTIAL — REQUIREMENTS FOR PHYSICAL EDUCATION MAJORS

The Physical Education Department offers a Waiver Program for obtaining a Ryan Single Subject Credential (K-12) in physical education, our se benome as sum show acisivib rewel as snot

The university program for meeting the basic requirements for the teaching credential with a specialization in physical education can be found elsewhere in this catalog (see Teaching Credential-Programs in the Academic Programs section). Additional information and requirements for the Department of Health, Physical Education and Recreation are as follows:

Advisement

The department offers guidance for students considering a teaching career. This is available through the Physical Education Teacher Education Advisement Office. Prospective students should consult with the adviser as early as possible in order to plan and acquire experiences prior to entry into the Teacher Education Program. This will assist students to evaluate their qualifications and to plan appropriate course work.

A screening committee evaluates candidates' qualifications based on grade-point average, required course work and experiences with children and/or adolescents. Applications to the Teacher Education Program may be submitted when all required waiver courses are in progress, or completed. The bachelor of science degree is not a prerequisite for admission to the Teacher Education Program.

Required Course Work: Teacher Education Waiver Program

In addition to, or as part of, the requirements for a major in physical education, all candidates for the credential must complete the following with a minimum of a C grade:

Physical Ed 300 Principles of Movement (3)

Physical Ed 340 Contemporary Movement Environments (equivalent to Ed Sec 310)

Physiology of Exercise (3) Physical Ed 348

Measurement and Evaluation in Physical Physical Ed 349 Education (3)

Motor Development (3) Physical Ed 364

Theory and Principles of Human Motor Physical Ed 371 cause These enginess sinist comp

Learning (3)

Physical Ed 396 Tutorial

Physical Ed 496 Physical Education Practicum

Analysis/Coaching Course Requirements:

Minimum of one team and one individual analysis class and one technique of coaching class.

Two courses selected from the following: Physical Ed 380, 382, 381, 384.

Two courses selected from the following: Physical Ed 363, 365, 372, 373, 383.

Activity Requirement:

Nine units required, of which six units must be from the intermediate (B) or advanced (C) levels and at least one course in each of the following five categories: dance, basic move-

ment, gymnastics, sports and games, and aquatics. See a listing of the approved waiver activity courses under the "Teaching Credential Programs" section of this catalog.

Additional Requirement carlott Watter and to submiber appli

program. In addition, the candidate must be ava-Ed Sec 386 Adolescence (3)

Completion of the Approved Waiver Program

All candidates for the credential must adequately demonstrate competency in subject matter, scope and content.

A copy of the waiver may be obtained from the physical education teacher education adviser.

Instructional Subject Matter of Physical Education

Students seeking a credential with a specialization in physical education must be able to demonstrate competency in instructional subject matter which is a part of the regular physical education program in the public schools. The Department of Health, Physical Education and Recreation specifically requires the following:

- a. Ability to perform and analyze basic movement skills common to a large number of instructional physical activities. The Month of Rose IASTRANCE (INTO ACCA
- b. Adequate background and preparation to demonstrate breadth of understanding of the scope, sequence and content of physical education. A Company of the design of the
 - Nine units required, of which six units must be from the intermediate (B) or advanced (C) levels and at least one course in each of the following five categories: (1) dance, (2) basic movement, (3) gymnastics, (4) sports and games, and (5) aquatics.

Note: Students are urged to consult with the physical educationteacher education adviser before submitting appropriate verification documents required for establishing subject matter competency and before applying to the Physical Education Teacher Education Program.

Experiences

Students are expected to have been involved in leadership experiences prior to formal application. All experiences can be in either coaching, recreation, camping, youth leagues, and/or aiding in public school physical education classes. These experiences can be either self-designed or designed through Physical Ed 496 (off-campus teaching practicum) and Physical Ed 396

Admission to Teacher Education

In addition to the requirements set forth in the Teaching Credential Programs and Department of Secondary Education sections of this catalog, the Department of Health, Physical Education and Recreation requires candidates to complete the Physical Education Waiver and to submit an application for the teaching program. In addition, the candidate must be available for a personal interview by the Physical Education Teacher Education Committee.

Prospective Teacher Education candidates are strongly encouraged to take additional units for a supplementary credential in a second subject area. More information is available from the Secondary Education Admissions Office (Education Classroom 207).

Acceptance into the program allows the candidate to enroll in a two-semester sequence:

First semester Ed Sec 440F, 440S, Physical Ed 442, 449E.

Second semester and an analysis of the second semester and an analysis and analysis and an ana

Physical Ed 449I, 449S.

Courses to be completed by end of second semester Ed Sec 440M, 440R.

ADAPTED PHYSICAL EDUCATION SPECIALIST CREDENTIAL

Cal State Fullerton offers an Adapted Physical Education Specialist Credential as a supplementary authorization to the Single Subject Physical Education Credential.

There are two options available. Option I is 18 units of required course work and experience within the field of physical education. This option is offered to applicants with a physical education teaching credential but no prior experience or course work in the adapted field. Option II is an individualized program designed by the physical education teacher education adviser and the candidate. This option is available for teachers holding a physical education credential and who have already been employed in the adapted field. The amount of prior adapted experience, the types of students worked with, evaluations by supervisors, prior course work, workshops and in-service training help to determine the individual program for each candidate.

Specific requirements for Adapted Physical Education Specialist credential include:

Physical Ed 260 Movement Anatomy (3)

Physical Ed 363 Development Adaptations of Atypical (3)

Physical Ed 364 Motor Development (3)

Sport Psychology (3) se renties ed nes esonei Physical Ed 383

Motor Impairment (3) Physical Ed 473

Physical Ed 474 Kinesiotherapy (3)

One approved 3 unit upper-division Physical Education course.

The Adapted Physical Education Specialist Credential may be obtained only in conjunction with, or in addition to, a Single Subject Physical Education Credential.

MASTER OF SCIENCE IN PHYSICAL EDUCATION

The program provides advanced study within the broad discipline of physical education and allows students to elect course work, with adviser approval, in physiology of exercise, motor learning, biomechanics, philosophy of human movement, sport psychology, sport sociology, physical education and athletic administration, sport and exercise management, adapted physical education, and curriculum and instruction.

The Master of Science degree in physical education is intended to meet the needs of students who wish to (1) prepare for admission to doctoral programs; (2) enhance competencies in teaching or athletic administration; and (3) to prepare for a variety of other physical education or sports-related careers.

Admission Requirements

An applicant must meet the university requirements for admission, which include a baccalaureate from an accredited institution, and a grade-point average of at least 2.5 in the last 60 semester units attempted (see "Graduate Regulations" for a complete statement and procedures). In addition to the university requirements for admission, acceptance into this program is contingent upon the following: (1) an undergraduate major in physical education with a grade-point average of 3.0 in upper-division physical education course work excluding health, recreation and fieldwork courses; and (2) submission of two letters of recommendation to the graduate studies coordinator.

Students with undergraduate degrees in areas other than physical education may be considered for conditional acceptance to the program. These students must complete 18 units of course work as follows with a minimum grade-point average of 3.0: Physical Ed 260, 300 and 352 plus nine units of electives from Physical Ed 349, 371, 380, 381, 382, 383, 390. Course work taken prior to completion of this requirement may not be counted toward the M.S. degree.

Students with grade-point deficiencies may be considered for conditional acceptance to the program. These students must complete additional undergraduate course work as specified by the graduate studies committee. Course work completed to raise the grade-point average may not be counted toward the M.S. degree.

Classified Standing MAJORS Hardward Requirements Activity Requirements

Classified standing requires the development of a study plan (see below) approved by the program adviser, graduate studies committee and dean of graduate studies. No more than nine units of graduate work taken before classification may be included on the study plan. Any changes to the study plan after classified standing is granted must be approved in advance, in writing, by the program adviser and the graduate studies committee.

Advancement to Candidacy

Advancement to candidacy is attained by requesting a graduation check in the semester prior to graduation (see class schedule for deadlines) and receiving subsequent approval of the graduate studies adviser on the completion review form (Form B), mailed by the Graduate Studies Office. Students not completing requirements by the graduation date specified on the original graduation check must contact the Graduate Studies Office.

Graduate Advisement

Students should consult with the graduate studies adviser for general information regarding the program. Upon acceptance to the program, students are assigned a program adviser who assists in developing the study plan. Thesis/project advisers are selected in consultation with the student, program adviser and potential thesis/project chair. Students may not register for thesis/project without the consent of the thesis/project chair. Advisement during the summer is provided by the department chair. Students may not register for, or complete, thesis/project studies during the summer without written consent of the thesis/ project Prerequisites: consent of coach and department chair, sestimmoo

Study Plan the Of Information of each transfer of the state of the sta

A study plan includes a minimum of 30 units of approved graduate work; at least 18 of the total units must be 500-level physical education course work. All study plans must include the following physical education courses: 508; 510; 597 or 598; and three advanced study courses. Additional course work may be selected from: (1) 400- and 500-level courses in physical education; and/or (2) graduate or approved upper-division courses from other departments within the university. An open proposal presentation on the thesis/project, prior to undertaking the study, and a final oral examination on the study are required. Students subject to academic probation, or those on academic probation, may not register for Physical Ed 499, 550, 597, 598 or 599.

Required Courses

Physical Ed 508 Statistical Methods in Physical Education (3) 1855 2198 004 ml/s or mind A 251840251519

Physical Ed 510 Research in Physical Education (3)

Physical Ed 598 Thesis (3) Thesis (3) Physical Ed 598 Thesis (3) Thesis (3) Physical Ed 598 Thesis (3) Physical Physical

(1 hour lecture, 2 hours pool activity/ocean dives)

Advanced Study Courses

(See course descriptions for prerequisite requirements.)

Physical Ed 516 Advanced Study of the Philosophical Perspective of Human Movement (3)

Physical Ed 551 Advanced Study in Physiology of

Exercise (3)

Physical Ed 552 Advanced Study in Biomechanics (3) Physical Ed 554 Advanced Study in Human Motor

Behavior (3)

Physical Ed 580 Advanced Study in Sport

Psychology (3)

Psychology (3)

Physical Ed 582 Advanced Study in Sport Sociology (3)

Elective Courses 1144 114 sanget or small land moderned 028

Approved 400/500-level physical education courses.

Approved upper division and graduate courses from other departments. The privil of mad protecule but defead foods?

Graduate Level Writing Requirement

The graduate level writing requirement is met by taking Physical Ed 510, Research in Physical Education, and passing the course with a C grade, or better.

Health Science Courses

101 Personal Health (3)

Basic concepts relating to health and well being from a holistic perspective. Mental, emotional, physical and socioenvironmental dimensions of health; sexuality and relationships; nutrition and physical fitness; use and abuse of drugs; health care services and current health problems.

102 Prevention and First Aid (2)

The hazards in environment. The care and prevention of accidents. Standard first aid certification by the American Red Cross granted upon successful completion of requirements. (Elective in Physical Education.)

301 Promotion of Optimal Health (3) (Same as Nursing 301)

320 Concepts in Health Science (3)

Prerequisite: one course from category IIIA 2 or 3 of general education and upper-division standing. Theoretical and practical issues of health science as a profession. Topics include: history, status, resources, roles in various settings, program implementation and evaluation, legal and ethical issues in health education.

321 Drugs and Society (3)

Prerequisite: completion of lower-division general education science requirement. Habit-forming substances such as alcohol, tobacco, narcotics, hallucinogens, and related drugs, other stimulants and depressants. Social, historical, and legal aspects of the drug problem are considered.

342 Stress Management (3)

The nature of stress and the physiological and psychological effects of prolonged stress responses. Includes short and long term somatic and behavioral techniques (exercise, relaxation, meditation, nutrition, time management and goal setting) for management of stress. (Same as Physical Ed 342).

350 Nutrition: Vital Link to Better Health (3) (Same as Nursing 350)

355 Health Education for Teachers (3)

School health, drug education, family living, community health, teaching philosophy, safety education and strategy. For California teaching credential.

450 Applied Health Promotion (3)

Prerequisite: Health Science 320 and Psychology 470. Health promotion/risk reduction program content, development, implementation and evaluation. Topics include: weight control, stress management, substance abuse, physical fitness and accident prevention.

495 Internship in Health Science (3)

Prerequisites: Health Science 320 and 450, senior standing, and consent of instructor. Supervised observation and field experience in worksite community health settings as conducted by government, voluntary, professional or industrial/corporate organizations. (May be repeated one time.)

Physical Education Courses

Only one section of the following performance courses may be taken in the same semester (e.g., Physical Education 131A, B, C, D are the same activity): Physical Education 100, 102 through 167, 214Å, 214B, 246A and 246B.

100 Physical Conditioning (1)

Designed to improve the individual's overall fitness through an understanding and application of the basic principles and techniques of physical conditioning. Emphasizes muscular strength/endurance, cardiorespiratory endurance and flexibility components through various forms of exercise methods. May be repeated for credit.

101 Athletic Conditioning (specific sport) (1)

A conditioning program designed to improve strength, flexibility, agility and cardiovascular conditioning for a specific sport. *Credit/no credit only.* May be repeated for a maximum of four units of credit.

102-167 Performance Courses (1)

102 Jogging; 103 Fitness Walking; 105 Cycling; 110 Swimming; 111 Life Saving; 117 Bowling; 118 Archery; 119 Golf; 120 Gymnastics; 122 Sailing; 123 Sailing; 124 Beginning Windsurfing; 130 Badminton; 131 Tennis; 132 Racquetball; 142 Children's Games; 144 Aerobic Exercise for Weight Control; 146 Body Building; 150 Wrestling; 151 Aikido; 152 Karate; 154 Self-Defense; 155 Fencing; 161 Slow Pitch Softball; 164 Volleyball; 165 Soccer; 167 Basketball. Performance courses are primarily instructional. Beginning, intermediate and advanced sections are offered for most performance courses. Students who already possess some proficiency in an activity should consider the course chosen from the standpoint of the level of skill development which may be encountered, standards of proficiency expected and their own ability level. Initial assessment and determination will be made by the course instructor. May be repeated for credit.

170-189 Intercollegiate Sports (2)

Prerequisite: consent of coach. An intercollegiate activity in individual or team sports in an educational setting under the direction of a coach. 170 Gymnastics; 172 Cross Country; 173 Water Polo; 174 Track-Field; 175 Tennis; 176 Wrestling; 177 Fencing; 178 Basketball; 179 Baseball; 180 Soccer; 184 Football; 185 Volleyball; 186 Softball. May be repeated for credit.

190 Team Management (2)

Prerequisites: consent of coach and department chair. Field experience in the management of an intercollegiate sport. May be repeated for maximum of eight units of credit. (Credit/No Credit only)

200 Introduction to Athletic Training (3)

Practical skills acquisition for the treatment, prevention and care of sports-related injuries. Basic required course for all students admitted to the National Athletic Trainer's Association (NATA) certification preparation. (2 hours lecture/2 hours activity)

210 Water Safety Instructor (2)

Prerequisite: Physical Ed 111 or equivalent and consent of instructor. Prepares the student to teach swimming and life saving and to supervise aquatic programs. Successful completion will qualify the student for certification as an ARC Water Safety Instructor. (1 hour lecture, 2 hrs activity)

214A Basic Scuba (3)

Prerequisites: Ability to swim 400 yards, tread water one minute and swim 25 yards underwater. Skin and scuba diving, theory of diving, safety procedures and ocean environment. Open Water Basic Scuba Certification earned with successful completion. (1 hour lecture, 2 hours pool activity/ocean dives)

214B Intermediate Scuba (2-3)

Prerequisite: Open Water Scuba Certification. Application of scuba diving, including photography, navigation, salvage, game hunting, night diving and others. Advanced Scuba Certification for successful completion. (1 hour lecture, 2 hours pool activity/ocean dives)

246A Basic Hatha Yoga (2)

Basic Yoga postures, breathing and relaxation techniques, and beginning meditation techniques from theoretical and experiential perspectives. Awareness, concentration and breathing patterns that accompany the movements of Hatha Yoga. (1 hour lecture, 2 hours activity) (Same as Religious Studies 246A)

246B Intermediate Hatha Yoga (2)

Prerequisite: Physical Ed 246A. An intermediate study of the theoretical and experiential aspects of Hatha Yoga. Intermediate postures, relaxation, breathing, stretching, and concentration techniques are examined. The philosophical and psychological components of Hatha Yoga are discussed. An integrated approach to the body and movement is investigated. (1 hour lecture, 2 hours activity) (Same as Religious Studies 246B)

250 Mental Skills for Sport Performance (3)

Developing an understanding of the mental aspects of sport performance and learning mental skills that can be used to enhance sport performance. (Credit/No Credit only)

260 Movement Anatomy (3)

The musculo-skeletal system and its function in human movement. Movement in sports skills and the muscles involved.

300 Principles of Movement (3)

Prerequisite: Physical Ed 260. General movement patterns as applied to sport and human movement.

301 Writing Styles in Human Movement Studies (3)

Prerequisite: English 101 or equivalent with C or better. Identifies the various perspectives through which human movement can be studied. Writing styles appropriate for each dimension are emphasized. Meets upper division baccalaureate writing course requirements for physical education majors; however, the course is not applicable toward the major.

303-319 Analysis of Sports (2)

Prerequisites: prior experience in the specific sport(s) to be studied; must demonstrate proficiency. Analysis of specific sport(s), including game play and skill performance. Understanding the nature of the activity. 303 Field Events; 304 Swimming; 305 Golf; 306 Gymnastics; 308 Soccer; 309 Badminton/ Racquetball; 312 Tennis; 316 Volleyball; 319 Softball.

325 Techniques of Coaching (2)

Prerequisite: upper division standing. To prepare students to coach selected sports. Coaching techniques; conditioning; budget preparation; gender, multicultural and equity issues; purchase and care of equipment; scheduling, design and care of facilities. Concurrent enrollment in Physical Education 496 (1-3 units) required.

320-338 Techniques of Coaching: Selected Sports (2)

To prepare the student to coach specific individual and team sports. Coaching techniques, conditioning of athletes, budget preparation, purchase and care of equipment, scheduling and design and care of facilities. 327 Wrestling; 328 Gymnastics; 330 Softball; 332 Tennis; 334 Baseball; 335 Football; 337 Basketball; 338 Volleyball. A maximum of 6 units may be applied toward completion of the units required for the major.

340 Contemporary Movement Environments (3)

The acquisition of physical skills in diverse environments; similarities and differences among age groups. Useful for those considering teaching careers. Required visits to schools and other sites.

341 Analysis of Basic Motor Skills (2)

Identification and analysis of motor skills and patterns basic to all physical activities. Critical evaluation of games and activities as to their effectiveness in promoting basic motor skills in children is emphasized. Recommended for those pursuing careers with children.

342 Stress Management (3)

(Same as Health Science 342)

348 Physiology of Exercise (3) (Formerly 352)

Recommended: Biology 362. Physiological processes in physical activities and the effect of training upon performance.

348L Physiology of Exercise Laboratory (1) (Formerly 352L)

Prerequisite: prior completion or concurrent enrollment in Physical Ed 352. Laboratory techniques in physiology of exercise. (3 hours laboratory)

349 Measurement and Evaluation in Physical Education (3) Tests and measurements used in the evaluation of human performance. Analysis and interpretation of data in different movement environments.

350 Physical Activity and Lifelong Well-Being (3)

Prerequisite: one course from Category III.C.I. of General Education and upper division standing. An integration of physiological, psychological and sociological understandings of the human being in relationship to physical activity as a lifelong pursuit. Topics include physical fitness, nutrition, stress reduction, socialization, and individual differences in human behavior. (Not open to physical education majors.) have been advised and advised

351 Principles of Conditioning (3)

Prerequisite: Physical Ed 260 required; 300 and 352 recommended. Conditioning for those who plan to coach or supervise fitness programs. Circuit training, nutrition, motivation, weight control and kinesiology factors.

363 Developmental Adaptations of Atypical (3)

Prerequisites: Physical Ed 300, 352, 364, or consent of instructor. The disabled whose unique needs in motor development determine their least restrictive environment in physical activity. Programs of games, sports and exercise in diversified settings; legally mandated regulations.

364 Motor Development (3) 10 to marmanim A. Iladyollov 888

Prerequisites: Physical Ed 260 and 352, or consent of instructor. Life span motor development: age, sex, ethnic, cultural and perceptual components; their implications and the main course of action needed in developmental strategies for optimal motor behavior development.

365 Prevention and Care of Athletic Injuries (3)

Prerequisites: upper division standing, Physical Ed 200 or consent of instructor. Focuses upon immediate observation and examination of injuries. Special emphasis will be placed upon the etiology, pathology, signs, symptoms and complications related to injuries sustained by athletes.

366 Advanced Prevention and Care of Athletic Injuries (3) Prerequisites: upper division standing, Physical Ed 365, or consent of instructor. Prevention and care of athletic injuries, administrative responsibilities, advanced treatment modalities, preconditioning, and rehabilitation. (2 hours lecture, 2 hours lab)

367 Therapeutic Modalities and Rehabilitative Exercise (3) Prerequisites: Physical Ed 365 or equivalent and/or consent of instructor. Athletic training and related sports medicine concepts including principles, techniques and effects of therapeutic modalities and rehabilitative exercise.

371 Theory and Principles of Human Motor Learning (3) Information processing as an explanation of motor learning and motor memory.

371L Theory and Principles of Human Motor Learning Laboratory (1)

Prerequisite: prior completion or concurrent enrollment in Physical Ed 371. Laboratory techniques in motor learning studies. (3 hours laboratory)

350 Physical Activity and (3) bins viivity Activity and Did St.

Characteristics of the child; physical growth and development; basic mechanical principles underlying efficient movement; and programs for physical needs of children in the elementary school.

373 Movement Concepts (3) a segond looked a balance and

Elements of movement: space, force, time, and flow. Observation, participation, analysis, and synthesis of movement experiences.

380 History of Physical Education and Sport (3)

Historical development of thought and practice in athletics, sport, and physical education from ancient Greeks to the modern period with special emphasis upon the historical role of sport in American life.

381 Human Movement in Cultural Perspective (3)

Prerequisite: one course from Category III.C.I. of General Education and upper division standing. Human movement in the cultural milieu. Historical and contemporary interpretations of the role of play, games, sports, dance and recreation in human life. (Physical Education majors may not double count this course for general education.)

382 Philosophical Perspectives of Human Movement (3)

The meaning and significance of participation in human movement. Human movement relative to personal identity, meditation, aesthetics, values, ethics, and the nature of competition.

383 Sport Psychology (3)

The role of personality and cognitive factors in human movement settings. Selected topics may include: arousal, attribution theory, achievement motivation, anxiety, interventions, attentional styles, aggression, social facilitation, social reinforcement, and imagery.

384 Sport Sociology (3)

Prerequisite: Physical Ed 381 or consent of instructor. Sport and social institutions and social processes. Understanding sport as a social phenomenon.

390 Principles of Sport and Exercise Management (3)

A broad overview of the sport/exercise management enterprise, including school, facility, professional, commercial, industrial, corporate management and specialists in marketing, print/electronic media. Job descriptions, professional preparation and placement opportunities are detailed. Portfolio development.

396 Physical Education Tutorial (1)

Prerequisite: consent of instructor and tutorial adviser. Supervised experience in performance or laboratory situations through tutoring or assisting in instruction. May be repeated for six units of credit. A maximum of three units may be applied toward the major.

408 Sports Fund Raising and Packaging (3) (Formerly 409)

Prerequisites: Physical Ed 390 or equivalent. Fund raising theories and principles with application to educational, professional and commercial sports. The importance of marketing within the sports setting. Theories and principles as relevant to the intercollegiate and professional athletic leagues.

414 Legal Issues in Sport and Exercise (3)

Prerequisite: senior or graduate standing. Analysis of the major legal issues involved in the conduct of amateur and professional sport and the teaching and administration of physical education. Issues include: coaching, student athlete, sports medicine, officials, spectators, facilities, equipment, contracts.

430 Applied Sport Psychology (3)

Prerequisites: Physical Ed 383 required. Application of principles from sport psychology literature to enhance athletes' and coaches' performance.

442 Teaching Physical Education (3)

Prerequisite: admission to teacher education. Objectives, methods and materials of teaching physical education K to 12. Required before student teaching. Part of the 12-unit education block and may not be taken separately. (Credit/ No Credit only. Requires B or better for credit.)

449E Externship in Secondary Teaching (3)

To be taken concurrently with Physical Ed 442. See description under Secondary Education. (Credit/No Credit only. Requires B or better for credit.)

449I Internship in Secondary Teaching (10)

See description under Secondary Education. (Credit/No Credit only. Requires B or better for credit.)

449S Seminar in Secondary Teaching (2)

See description under Secondary Education. (Credit/No Credit only. Requires B or better for credit.)

451 Sports Medicine (3)

Prerequisites: upper division standing, Physical Ed 352 or its equivalent or consent of instructor. Factors (environmental, ergogenic, etc.) which alter the typical physiological response to exercise and training.

452 Physical Performance Testing and Counseling (3)

Prerequisite: Physical Ed 352 and 352L required; Physical Ed 351 and 451 recommended. Testing and counseling techniques used to assess and develop physical performance.

454 Physical Activity and the Aging Process (3)

Prerequisite: At least two upper division physical education courses or two upper division courses from the Gerontology minor or consent of instructor. Examination of the scientific evidence concerning the relationship between level of physical activity and one's physical, mental and psychological well-being during aging.

461 Biomechanics (3)

Prerequisite: Physical Ed 300 or consent of instructor. The application of biomechanics to the analysis of human movement.

471 Motor Control (3)

Prerequisite: Physical Ed 371. The application of behavioral and neurological evidence to the control of human movement. Mechanisms subserving movement based on the central and peripheral nervous systems are studied in relation to the control of discrete and sequential movements.

473 Motor Impairment (3)

Prerequisites: Physical Ed 363, 364 or consent of instructor. Identification of abnormal motor behavior of the neurologically handicapped. Assessment factors, development of educational and/or therapeutic models of remediation and action strategies. Disorders of neuromotor, convulsive, impulsive and minimal dysfunction syndrome.

474 Kinesiotherapy (3)

Prerequisites: Physical Ed 260, 300, 363, or consent of instructor. Kinesiological bases of therapeutic exercise. The application of kinesiological principles in the selection and design of therapeutic exercise activities and programs for various physical disabilities.

475 Cognitive Dimensions of Motor Performance (3)

Prerequisites: Physical Ed 371, 383. An integrated approach to the understanding of psychological processes and behavioral variables which affect the acquisition and performance of motor

496 Practicum (1-3)

Prerequisites: junior or senior standing and consent of faculty sponsor, field supervisors, departmental coordinator, and department chair. Planning, preparing, coaching, teaching in public school, college, or community physical education or recreation programs. May be repeated for a maximum of six units of credit. Credits not applicable toward major, or fifth year work. (Credit/ No Credit only).

499 Independent Study (1-3)

Prerequisites: completion of a minimum of 15 upper division physical education units. Topics based on a study plan prepared in cooperation with a faculty supervisor. Culminates in a paper, project, comprehensive examination or performance. Maximum of three units in any one semester; may be repeated once.

508 Statistical Methods in Physical Education (3)

Prerequisite: graduate status and Physical Ed 349 or equivalent. Statistical theory, data collection procedures, techniques for analysis and interpretation of data.

510 Research in Physical Education (3)

Prerequisites: graduate status and Physical Ed 508. The fundamental tools of research. Types of research, process of scientific inquiry and critical analysis of research. Topic selection and development of a research proposal.

516 Advanced Study of the Philosophical Perspective of Human Movement (3)

Prerequisites: graduate status and Physical Ed 382 or consent of instructor. Methods of the philosophical process and human movement.

536 Contemporary Problems and Issues in Sport Management (3)

Prerequisite: graduate status and Physical Ed 390 or consent of instructor. Historical trends, current issues, and related problems of the sport and exercise industry. Job related decision-making.

550 Internship (3)

Prerequisites: classified status and consent of graduate adviser. On-the-job training experiences supervised by a fully trained practitioner. Requirements include 10 hours per week of on-the-job training and one hour weekly conference with instructor. Not open to students on, or subject to, academic probation.

551 Advanced Study in Physiology of Exercise (3)

Prerequisite: graduate status and Physical Ed 352 or equivalent. Theories of exercise and physiological function.

552 Advanced Study in Biomechanics (3)

Prerequisite: graduate status and Physical Ed 461 or equivalent. Technique analysis of the major skills in sports. In-depth analysis of specific sports using high speed cinematography, instrumentation, computers, electromyography and electrogoniometry.

554 Advanced Study in Human Motor Behavior (3)

Prerequisites: graduate status, Physical Ed 371 or consent of instructor. Current issues in motor behavior.

555 Scientific Bases of Training (3)

Prerequisites: graduate status and Physical Ed 351, 352, or equivalent, or consent of instructor. Training: the physiological bases for developing the primary fitness components.

556 Environment and Exercise Physiology (3)

Prerequisites: Physical Ed 352, 352L, 351, graduate status, and instructor's consent. The interrelationship between the physical environment and the human while exercising under different states of fitness and acclimatization.

516 Advanced Study of the Philosophical Perceptive at

Prerequisites: graduate matus and Physiqueled 382 on recient 66

of the sport and exercise industry. Job related decisionsmakingA

580 Advanced Study in Sport Psychology (3)

Prerequisites: graduate status and Physical Ed 383, or consent of instructor. Current issues and research in psychology and human movement.

582 Advanced Study in Sport Sociology (3)

Prerequisites: graduate status and Physical Ed 384, or consent of instructor. The theories and methods of sociology and the study of the sport phenomenon.

597 Project (3)

Prerequisites: classified status, Physical Ed 508, 510 and consent of project committee. Directed independent inquiry. Not open to students on, or subject to, academic probation.

598 Thesis (3)

Prerequisites: classified status, Physical Ed 508, 510 and consent of thesis committee. Student will select and have approved a research proposal, conduct the research, and prepare a formal analysis and report. May be repeated. Not open to students on, or subject to, academic probation.

599 Independent Research (1-3)

Prerequisites: graduate status, Physical Ed 508, 510, and consent of the faculty adviser and department chair. May be repeated for maximum of 6 units of credit. Student research in a specific area of human movement studies. Not open to students on, or subject to, academic probation.

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Human Services Program



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Program Coordinator: Gerald Corey Program Office: Education Classroom 577

Programs Offered Bachelor of Science in Human Services Minor in Human Services Multiple Subject Credential Waiver Program

Soraya Coley, Gerald Corey, Michel Garcia, J. Michael Russell, Jerome Wright

INTRODUCTION

The Bachelor of Science in Human Services is a carefully articulated program providing both the academic and experiential background for the student seeking a career working with people in the varied and expanding field of human services. An application-oriented major, it is based on a synthesis of knowledge from several social sciences, together with methodologies of intervention at the individual, group and community levels. Human services graduates are educated to respond in an informed way to identifiable human service needs in a variety of settings. The program's humanistic orientation and its synthesis of knowledge from many background disciplines, as well as its focus on the development of specific methods and practical skills to apply this knowledge, give it a unique perspective.

The Human Services Program is structured around four interrelated components: theoretical foundations/intervention strategies; client population/cultural diversity; research/evaluation; and skills development/field experience.

BACHELOR OF SCIENCE IN HUMAN SERVICES

The requirements for the major consist of 54 units. The required core curriculum consists of 36 units (in the above four areas), plus 18-units of adviser approved courses related to one's anticipated professional specialization.

Majors must achieve a grade of C or better in all courses included in the core curriculum and in the advisement track. It is the student's responsibility to consult an adviser on the human services faculty at least once during each of her/his first two semesters on campus to develop a study plan identifying courses for the advisement track.

Community College Transfer Students: Community college transfer students may apply a maximum of 12 units of course work in human services and related fields towards the total of 54 units. Transfer of any units must be approved by the student's adviser and the Program Coordinator. (vacinamele) toeldus

Courses required for the major total 54 units. The suggested sequence is as follows:

Required Core Curriculum (36 units)

Sophomore Year

Human Services 201 Introduction to the Human Services (3) Psychology 201 Elementary Statistics (3)

or Sociology 303 Statistics for the Social Sciences (3)

Note: Human Services 300, Character and Conflict, is required in the paraprofessional counseling advisement track and should be taken early in the program.

Junior Year: First Semester

Human Services/Counseling 380 Theories and Techniques of Counseling (3)

Afro/Human Services 311 Intracultural Socialization Patterns (3)

Psychology 361 Developmental Psychology 361 polarised and

or Child Development 312 Human Growth and Development (3)

Psychology 341 Abnormal Psychology

or Sociology 451 Sociology of the Family (3)

Junior Year: Second Semester has a many deadless and the moit

Human Services 396 Practicum Seminar (2)

and Human Services 396L Practicum* (1)

Sociology 305 Techniques of Social Welfare (3) Advisement Track Course(s) and appeals Laborational vision mon

development of specific methods and practical skills to apply this

Senior Year: First Semester Transparent and and assessment

Human Services 385 Program Design and Proposal Writing (3)

Human Services 495 Fieldwork Seminar (2) and Human Services 495L Fieldwork* (1)

Advisement Track Course(s)

Senior Year: Second Semester

Human Services 470 Evaluation of Human Services

Programs (3)

Human Services 496 Internship Seminar (2) and Human Services 496L Internship* (1-3)

Advisement Track Course(s)

Required Advisement Track (18 units)

In addition to the 36-unit core, the human services degree program requires each student to select, in consultation with an adviser, an 18-unit advisement track in the area of her/his anticipated professional specialization. Examples of advisement tracks include: management of human services, gerontology, multiple subject (elementary) teacher education, paraprofessional coun-

seling (individual and group), social work, or an individual program worked out with an adviser. Students are expected to consult with an adviser during their first semester in the Human Services Program to develop a study plan.

Note: Human Services 300, Character and Conflict, may be used as an elective in advisement tracks; consult an adviser for further information.

MINOR IN HUMAN SERVICES

The minor in Human Services, consisting of 21 units, may be of interest to students preparing for careers in the helping professions, as well as students with a personal interest in this field. The minor provides a structured selection of courses offered by the Program which can complement other majors and minors by providing practical applications of theory, foundations, self-exploration and supervised fieldwork in a human services setting.

Required Foundation Courses: 9 units

Human Services 201 Introduction to Human Services (3)

Human Services 311 Intracultural Socialization

Patterns (3)

Human Services 380 Theories and Techniques of

Counseling (3)

Electives: Select 3-9 units from the following

Human Services 300 Character and Conflict (3)

Human Services 385 Program Design and Proposal Writing (3)

Human Services 400 Ethical and Professional Issues in Human Services (3)

Human Services 410 Crisis Intervention (3)

Human Services 416 Group Process and Membership (1-3)

Human Services 420 Management of Human Services (3)

Human Services 470 Evaluation of Human Services

Programs (3)

Human Services 480 Case Analysis and Intervention Techniques (3)

Fieldwork: Select 3 to 9 units from the following

Human Services 396/396L Practicum Seminar (2) and Practicum (1)

Human Services 495/495L Fieldwork Seminar (2) and Fieldwork (1)

Human Services 490 Practicum in Group Leadership (3) Human Services 496/496L Internship Seminar (2) and Internship (1-3)

MULTIPLE SUBJECT CREDENTIAL WAIVER

A carefully selected sequence of courses taken in conjunction with the human services major has been approved by the State of California as a waiver for the General Knowledge Core Battery portion of the National Teachers' Examination. One requirement for a Multiple Subjects (Elementary) Teaching Credential is completion of a waiver program or passing scores on the (NTE) General Knowledge Core Battery. Contact the Credential Preparation Center for further information.

^{*}The practicum/fieldwork/internship courses (Human Services 396 and 396L, 495 and 495L, and 496 and 496L) must be taken in sequence. Only one fieldwork course work may be taken in a given semester.

Human Services Courses

196 Student-to-Student Tutorial (1-3)

Prerequisite: Approval of Program Coordinator. Students gain tutoring experience with peers needing special assistance on a one-to-one basis or in small group settings. 1-3 units, credit/no credit only, does not count toward the Human Services major/ minor or G.E. requirement.

201 Introduction to the Human Services (3)

The origin and scope of human services including theoretical frameworks, the functions and activities of human services organizations, and the roles and related skills of human services workers.

300 Character and Conflict (3)

Prerequisite: consent of instructor at first class meeting. An experiential, theme-oriented class exploring life choices in the struggle for personal autonomy. Themes include: body image, sex roles, love, sexuality, intimacy, marriage, alternative life-styles, loneliness, death, meaning and values. Credit/no credit only.

311 Intracultural Socialization Patterns (3)

(Same as Afro Studies 311)

380 Theories and Techniques of Counseling (3)

Prerequisite: upper division standing or consent of instructor. Survey of contemporary theories and techniques of counseling. The counseling process, comparison of various theoretical approaches, introduction to professional and ethical issues in the helping profession of counseling. (Same as Counseling 380)

385 Program Design and Proposal Writing (3)

Prerequisites: Human Services 201; 396 and 396L, or consent of instructor. Techniques of program design, budgeting and staffing of human service programs; proposal writing and fund development methods; survey of needs assessment procedures.

396 Practicum Seminar (2)

Prerequisite: Human Services 201. Corequisite: Human Services 396L. Functions and structure of human services agencies; interrelationships with community services; the role of the human services worker; ethical, legal and professional issues.

396L Practicum (1)

Prerequisite: Human Services 201. Corequisite: Human Services 396. Field placement in one or more human service agencies for a minimum of eight hours per week. Credit/no credit only.

400 Ethical and Professional Issues in Human Services (3)

Prerequisites: Human Services 380; 396 and 396L; or Philosophy 310, or consent of instructor. A survey of ethical, legal and professional issues facing the human services worker. Designed to teach a process of ethical decision-making and to increase awareness of the complexities in practice. (Same as Philosophy 400)

410 Crisis Intervention (3)

Prerequisite: Human Services 380 or equivalent. Examines the theories and techniques of short-term crisis intervention and subsequent referral procedures. Topics include suicide, battering, rape, death, and dying.

416 Group Process and Membership (1-3) (Formerly 316)

Prerequisites: Human Services 300 and 380. A didactic and experiential overview of stages of group development, impact of members on group identity, group member and leader issues. Survey of various counseling groups. May be repeated for credit. Credit/no credit only. (Same as Counseling 416)

420 Human Services Management (3)

Prerequisites: Human Services 385. Issues in administration and management of human services in community agencies. Topics include assessing client needs, designing human service delivery systems, program budgeting, marketing strategies, accountability, and improving program management.

470 Evaluation of Human Services Programs (3)

Prerequisites: Human Services 385 and an elementary social science statistics course. Making program objectives measurable; determining appropriate methodology and techniques to evaluate effectiveness, efficiency and process variables; practical problems of program evaluation.

480 Case Analysis and Intervention Techniques (3)

Prerequisites: Human Services 380, 396 and 396L; Psychology 341. Techniques of counseling; appropriateness in the utilization of theoretical modalities; case writing; various counseling intervention methods suitable for a culturally diverse population. Role-playing and videotape observations of actual counseling encounters. (Same as Counseling 480)

490 Practicum in Group Leadership (3)

Prerequisites: Human Services 300, 380 and consent of instructor. Supervised experience as a group leader. Approaches and techniques of group leadership. May be used as a substitute for either 495/495L or 496/496L. May be repeated once for credit.

495 Fieldwork Seminar (2)

Prerequisites: Human Services 396 and 396L. Corequisite: Human Services 495L. Classroom analysis of agency experience focusing on skills and techniques of human service workers and organizational analysis. Credit/no credit only.

495L Fieldwork (1)

Prerequisites: Human Services 396 and 396L. Corequisite: Human Services 495. Supervised fieldwork in one or more human service agencies for a minimum of eight hours per week. Credit/ no credit only.

496 Internship Seminar (2)

Prerequisites: Human Services 495 and 495L and at least two courses in approved specialization. Corequisite: Human Services 496L. Supervised internship in a community service agency in area of specialization. Seminar consists of group supervision and discussion of cases. Credit/No Credit only.

496L Internship (1-3)

Prerequisite: Human Services 495 and 495L. Corequisite: Human Services 496. Each unit of credit requires 120 hours of supervised internship experience in one or more human service agencies in one semester, or eight hours weekly for each unit of credit. Credit/No Credit only.

Prerequisites: Human Services (BS) Issue in administration and management of human services in communities entreed. Teptotic include assessing client poeds, designing human serva each perfect processing them to the communities of the communi

ity, and improving program prabaciants strategies accountabile

470 Evaluation of Human Services Programs (3) 101000 me Prerequisites: Human Services 383 and an elementary social suitence statistics course. Making program objective? measurables determining appropriate medical loggeoulant haisures on quality are effectiveness, efficiency, and process virgisless master are probe.

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Prerequisites Human Services 380, 396 and 3061; Psychibbey 341. Techniques of connecting appropriate uses in shout thanich of theoretical modelities; case writing; various counselanguement vention methods suitable for accountable diverse populational Role-playing and videoing-iobsertifficound actual cutableshing encounters, (Same as Counseling, 480 by a sensitive amounter.)

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focusing on skills and techniques of human service workers and organizational analysis. Creditivid credit differentially having an accordance of the services degree or the services of the services of the services or the services of the se

499 Independent Study (1-3)

Prerequisites: approval of coordinator, consent of instructor, upper-division status. Individual research project, either library or field, under the direction of a faculty member. May be repeated for credit. Only three units per semester.

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201 introduction to the Human Services (3).

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amenories, the functions and activities of human services once leastions, and the roles and related skills of human services protection says require roles and related skills of human services.

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Program Designand Program! Nating 13)
Perequisites: Human Services 201; 396 and 3961s, precovered of naturation flechmant! At program design, addicting and curling at human service programs, proposal writing and fund desilingment methods; survey of needs assessment procedures.

396 Practifican Sciminary (2) 1507 (3021) 602 courses annuel Prerequisite: Human Services 201. Corequisite: Human Services 3961. Innections and structured of human Services spensions that community services: the rolei billihar limited services with community services: the rolei billihar limited services wield in success remultiservices wield in success remultiservices.

396L Practicum (1)

Frerequisite: Human Services 201. Corequisite: Human Services 396. Field placement in one or mote human service agencies for a 396. Field placement in one or mote human service agencies for a mittimum of eight shours per weeks Croditione eredit should be a sare? And the sorting as a sare and the should research the services 180: 896 and 966, or Philosophy Prerequisites Pluman Services 180: 896 and 966, or Philosophy or evidence of metral comments are serviced to the sare should be successful to the sare should be sare should be successful to the sare should be success

Military Science Program (Army ROTC)



325 Contemporary 3d littary Justice System (3)

Coordinator: Captain John Sarnecky Assistant Coordinator: Captain Mark Godina Operations Sergeant: Master Sergeant Harold Kammermeyer, Jr. III Administrative Sergeant: Sergeant Nancy Huey Department Office: Modular Office Unit 301

Program Offered Minor in Military Science

INTRODUCTION

Military Science is the study of the causative factors and the tactical principles of warfare. ROTC provides an added dimension to the university by offering the student applied leadership and management education and experience found in few other college courses. Military Science courses are accredited and open to the entire academic community. Full-time enrolled students in all academic disciplines are eligible to enroll as cadets in accordance with university and Army policy. Three-year and two-year merit scholarships are available and awarded on a competitive basis. Upon successful completion of all requirements, cadets are commissioned as second lieutenants and serve either in a fulltime active duty capacity or part time in the Army Reserve or National Guard, this depending on the desires of the student and the needs of the Army.

Four-Year Program

This program is comprised of a "Basic Course" and an "Advanced Course." The "Basic Course" is normally taken during the freshman and sophomore years and is comprised of courses from many disciplines while the "Advanced Course" is normally taken during the junior and senior years and concentrates on military subjects. "Basic Course" participation is done on a voluntary basis without obligation. However, upon entry into the "Advanced Course," cadets are required to execute a contract with the Department of the Army agreeing to complete the ROTC program and accept a commission as a second lieutenant and serve on either a full-time or part-time basis. For non-scholarship cadets, there is no active-duty obligation beyond training, however, they will have a reserve obligation. "Advanced Course" cadets will receive up to \$1,000 a year along with free uniforms and books for all military science courses.

Two-Year Program

This program is for those students who have at least four semesters of work remaining on campus as either an undergraduate, graduate or combination thereof, who, for whatever reason, failed to initiate participation earlier. These students must attend either the ROTC Basic Camp or an on-campus "Compression" program to gain eligibility for "Advanced Course" enrollment. Upon successful completion of either training program, the student is then eligible for contracting as an "Advanced Course" cadet under the same benefits, requirements and guidelines as the four-year students. Honorably discharged veterans and Reserve and National Guard enlisted personnel are eligible for enrollment in the "Advanced Course" without any additional training upon gaining junior academic standing.

MINOR IN MILITARY SCIENCE SOURCE STATISM IN TORING

The Military Science Minor is comprised of a combination of courses from many disciplines totalling 24 units. Students interested in this program should seek additional information from the Military Science office of OTOR are walter to select on the selection of t

GENERAL REQUIREMENTS

All enrolled students (cadets) will take one course each semester from the following list of courses, as well as participating in leadership laboratories conducted during one weekend each month. The duration of leadership laboratories varies from one to four days. Additionally "Advanced Course" cadets will attend a six-week advanced summer camp prior to commissioning. Nursing students will participate in the same academic program; however, they will attend an alternate advanced summer camp specifically for nursing students. " students and the cifically for nursing students."

All four-year cadets will take the following in their freshman year:

Military Science 281 Map Reading and Orienteering (2)

Military Science 210 Psychology of Military Leadership (3)

All four-year cadets will take the following in their sophomore year:

History 393 American Military History (3) Poli Sci 352 American Foreign Policy (3)

All cadets will take the following in their junior year:

Military Science 101 Military Instruction Techniques and Leadership Principles (2) desimmon a second bas margong

Military Science 102 Theory and Dynamics of Military Organizations (2) of nonegido wub-swize on at each traders,

All cadets will take the following in their senior year: "I we are her

Criminal Justice 325 Contemporary Military Judicial System (3)

Military Science 301 Ethics for the Military Professional (3)

Military Science 201A Leadership Laboratory (1)

Military Science 201B Leadership Laboratory (1)

All cadets will enroll in Military Science 100 Army Physical Training each semester, as well as participate in a one-hour weekly cadet formation.

Military Science Courses

100 Army Physical Training (1)

A fitness overview designed to improve student techniques in developing, maintaining, instructing, and leading an organization level physical training program. Principles of cardiorespiratory endurance, muscular strength, muscular endurance, flexibility, and military technique will be emphasized. May be repeated for credit.

101 Military Instruction Techniques and Leadership Principles (2)

Techniques of military instruction enhanced by practical exercises and leadership principles are examined through the use of case studies, both enriched by leadership laboratories.

102 Theory and Dynamics of Military Organizations (2)

Prerequisite: Military Science 101 or consent of the instructor. Theory in planning and organizing the deployment of small military units.

201A Leadership Laboratory (1)

Application to military organization and management. Development of objectives, plans and proper execution of military skills training exercises.

201B Leadership Laboratory (1)

Prerequisite: Military Science 201A. Application of the concepts of military organization, staffing and training management. Advanced training in the proper execution of military training exercises. Study enhanced by a one-week encampment at Fort Ord.

210 Psychology of Military Leadership (3) (Same as Psychology 210)

281 Map Reading and Orienteering (2) (Same as Geography 281)

301 Ethics for the Military Professional (3)

Ethical dimensions of professional decision making, leadership, crisis-management, the responsibilities of officers and officials, and comparisons between military and civilian roles.

325 Contemporary Military Justice System (3)

(Same as Criminal Justice 325)

Department of Nursing



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Pre- or corequisite: Nursing 300. (Last & Capital D) agratovite

Nursing 450/L Nursing Research (3)

Department Chair: Julia George Department Office: Education Classroom 105

 Submit a nursing application form to the D
office with a transcript copy of all previous Program Offered Bachelor of Science in Nursing

Faculty of does ladeling on another confermation quant

Julia George, Arlene Blix, Linda McKeever, Marion Lewis, Sandra Lookinland, Noreen O'Brien, Barbara Talento

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The major in nursing is designed to provide registered nurses with knowledge, skills and attitudes necessary for the performance of the professional nursing role and characteristic of the generally educated person. The program prepares a nursing generalist who can provide care within a framework of scientific and professional accountability, and can function independently in a variety of health settings. The program provides students with the necessary foundation for graduate education and specialization and promotes and fosters commitment to lifelong learning for personal and professional growth.

BACHELOR OF SCIENCE IN NURSING

The Department of Nursing offers to the registered nurse with an associate degree in nursing (or its equivalent) an upper-division program leading to a bachelor of science degree with a major in nursing. Graduates are eligible for certification as public health nurses in the State of California.

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The program is accredited by the National League for Nursing.

hashporr course may be repeated only one time and a Admission Requirements

- 1. Meet requirements for admission to the university as a transfer student. The way of the Residence and recent and
- 2. Completion of an associate degree in nursing or its equivalent.
- 3. Current licensure as a registered nurse in California.
- 4. Completion of one college level course in each of the following: anatomy (with laboratory), physiology (with laboratory), chemistry (with laboratory), microbiology (with laboratory), psychology, and sociology or anthropology. A minimum grade of C must be attained in each course.
- 5. Completion of one year of satisfactory work experience as a registered nurse is recommended.

Admission Procedures

Students are accepted into the nursing program twice each year in the fall and spring semesters.

- 1. Submit a university application and an official transcript of all previous college work to the Office of Admissions and Records.
- 2. Submit a nursing application form to the Department of Nursing office with a transcript copy of all previous college work and two letters of reference from previous employers or instructors.
- 3. Group counseling sessions are available each semester for prospective students.
- 4. Entry tests will be required prior to and during the first clinical nursing course. Results will be used for counseling purposes. A fee is charged.

Departmental Regulations

- 1. All required nursing and support courses must be taken in sequence. Check each nursing course for prerequisites and corequisites. Students may enroll in only one clinical course (Nursing 305L, 355L, 402L and 452L) per semester.
- 2. Students must apply for the clinical nursing courses each semester prior to enrollment in the class. (November 1 deadline for spring semester and April 1 for fall semester.) Enrollment in the seminar and clinical sections is limited to 10-15
- 3. Students must maintain a cumulative 2.0 grade-point average on all units attempted and attain a minimum grade of C in all nursing and support courses.
- 4. The student who earns less than a grade of C in nursing or support courses must repeat that course prior to being admitted into the next nursing course in sequence. A nursing or support course may be repeated only one time and requires departmental consent.
- 5. Students must have current RN licensure, malpractice insurance, current CPR certificate, and access to transportation in order to be admitted into clinical courses.
- 6. Students are required to make an appointment with advisers at least once each semester.
- 7. Professional standards are expected to be maintained. A student who demonstrates unprofessional behavior or behavior which indicates unsafe practice may be denied progression or may be dismissed from the program. Refer to department for complete progression and retention policy as stated in the Student Handbook.
- 8. Any student with a lapse of five years between clinical nursing courses, must take a placement test and remediation, if necessary, before admission to the subsequent clinical nursing courses. 2018 Leadership Laboratory (1)

Scholarships, Awards, Financial Aid Army Physical

Financial aid and community scholarships are available.

Outstanding senior student, W. J. Traber Humanism Award, and Vera Robinson Humor Award are given to graduating seniors.

Requirements for the Degree

The total number of units required for the Bachelor of Science in Nursing is 128. This consists of a specific combination of prerequisites, general education, nursing and elective courses.

The following courses are required for the nursing major: Nursing 300, 305, 305L, 307, 320, 353, 355, 355L, 357, 400, 400L, 402, 402L, 450, 450L, 452, and 452L (43 units); and upper-division statistics course (3 units). Total: 46 units.

All students must complete the university upper-division baccalaureate writing requirement, which includes the Examination in Writing Proficiency. Nursing 305 is approved as the upper-division writing course.

Baccalaureate Plan of Study

Students may attend full-time or part-time.

Junior Year: First Semester

Nursing 300 Nursing Theories: Bases for Professional Practice (3) Nursing 305/L Professional Nursing I (Laboratory/ Clinical)* (3, 2)

Nursing 307 Health Promotion: Parent-Child Nursing (3) General Education/Electives (3)

Junior Year: Second Semester

Nursing 320 Process of Teaching in Nursing (2)

Nursing 353 Alterations in Health Status: Applications in Nursing (4)

Nursing 355/L Professional Nursing II (Laboratory/ Clinical)* (3, 2)

Nursing 357 Health Promotion: Adult-Aged Nursing (3) General Education/electives (3)

Senior Year: First Semester

Nursing 400/L Professional Dimensions of Nursing (3)

Nursing 402/L Community Health Nursing (Clinical)* (3, 3)

Statistics (upper division) (3)

General Education/electives (3)

Senior Year: Second Semester

Nursing 450/L Nursing Research (3)

Nursing 452/L Leadership/Management in Professional

Nursing (Clinical)* (3, 3)

General education/electives (6)

^{*}Clinical courses require current RN licensure, malpractice insurance, current CPR certificate, and access to transportation.

Nursing Courses

Note: All nursing courses for majors require (1) admission to the university as a nursing major, (2) current California R.N. licensure, (3) junior standing and (4) consent of instructor.

300 Nursing Theories: Bases for Professional Practice (3)

Prerequisite: junior standing, consent of instructor. Discussion and comparison of concepts and theories from nursing, humanities and science with emphasis on their significance to the practice of professional nursing. Includes philosophy and conceptual framework of the nursing program and use of theory in the nursing process.

301 Promotion of Optimal Health (3)

Prerequisites: one course from category III. A.2 of general education and upper division standing. Advanced health concepts and practices. Common health problems, causative factors and methods for prevention. Preventive and promotive health concepts and practices explored, integrating physiological, psychosocial, spiritual, cultural, and environmental factors which inhibit or facilitate optimal health. For non-nursing majors. (Same as Health 301)

302 The Health Delivery System and the Consumer (3)

Prerequisites: upper-division standing, and completion of G.E. requirements III.A.1 and III.C.1., or consent of instructor. Exploration of Health Care Delivery Systems (HCDS) with emphasis upon consumer and cost-effective health care. Analysis of the HCDS Crises; comparison to other nations; ethics and technology; and the role of health professionals in the promotion of wellness are included. Open to non-nursing majors.

303 Women's Health and Healing (3)

Prerequisites: upper division standing or consent of instructor. Analysis of issues affecting women's health across the lifespan, utilizing literature from many disciplines to provide an integrated approach. Improvement of health care consumerism, feminist understanding, and scholarly inquiry concerning women's health concerns are goals. Open to non-nursing majors.

305 Professional Nursing I (3)

Pre- or corequisite: Nursing 300; Focuses on professional nursing role, written and oral communication theory and principles and the nursing process. Includes psycho-social concepts relative to health of the individual. Influence of culture, role, social support, and values evaluated. Meets undergraduate writing requirement.

305L Professional Nursing I: Laboratory/Clinical (2)

Pre- or corequisite: Nursing 300. Corequisite: Nursing 305. Focuses on interaction and socialization into the professional role. Students utilize nursing process with clients exhibiting psychosocial-spiritual-cultural risks to health. Competence in critical thinking, evaluation and writing is facilitated.

307 Health Promotion: Parent-Child Nursing (3)

Prerequisite or corequisite: Nursing 300. Theories and issues important in parent-child nursing. Specific nursing interventions useful in promoting health relative to developmental change. Topics explored: genetic counseling, parent-child bonding, sexuality, adaptation patterns from conception through adolescence, cultural determinants.

320 The Process of Teaching in Nursing (2)

Prerequisites: Nursing 300, 305 and 305L. Nursing knowledge and skills in clinical teaching situations with individuals, families and groups. Content includes theories and principles of learning, teaching strategies and methodologies, teaching resources and evaluation of instruction.

350 Nutrition: Vital Link to Better Health (3)

Prerequisites: Chemistry 111 or comparable course. Concepts of nutrition as they relate to nutritional needs, practices and problems throughout the life cycle. Emphasis on nutritional counseling and education of individuals/groups toward health promotion and disease prevention. Open to non-nursing majors.

353 Alterations in Health Status: Applications in Nursing (4)

Prerequisite: Junior standing in nursing or consent of instructor. Corequisite to Nursing 335, 355L. Nursing 300 is to be taken prior to or concurrent with N353. Discusses alterations in health status and their applications to nursing practice. Addresses alterations at the cell and system levels, and potential resulting functional changes. Epidemiological approaches and clinical case studies will be presented to support nursing assessments and interventions.

355 Professional Nursing II (3)

Prerequisites: Nursing 305, 305L. Corequisites: Nursing 353 and 355L. Adult health assessment including common variations found in the child and older adult. Analysis of health data and identification of health risks of specific groups emphasized. Research findings used to support nursing interventions to reduce risk and promote health.

355L Professional Nursing II: Laboratory/Clinical (2)

Prerequisites: Nursing 305, 305L. Corequisites: Nursing 353 and 355. Students practice history taking, physical examination techniques and risk identification on peers in supervised oncampus setting. Students apply these skills and intervene to reduce risk and/or promote health with individual clients.

357 Health Promotion: Adult-Aged Nursing (3)

Prerequisite: Nursing 300. Developmental theories of adulthood and the aging process. Selected topics (divorce, retirement, death and illness, other anticipated and unanticipated life events) examined with emphasis on adaptation to developmental and situational stressors and nursing interventions.

360 Promoting Health of the Elderly (3)

Characteristics of aging and concerns of the elderly: multidimensional assessment and selected therapeutic interventions useful in promoting health of the elderly. Evaluations of health practices and determination of appropriate referrals.

400 Professional Dimensions of Nursing (2)

Prerequisites: junior level nursing courses. Corequisite: Nursing 400L. Analysis of social trends and issues affecting nursing and health care. Bioethics, health care legislation and roles of professional organizations are examined. Nursing leadership tasks are explored in relation to group dynamics, values clarification and ethical decision-making.

400L Professional Dimensions of Nursing: Laboratory (1)

Prerequisites: junior level nursing courses. Corequisite: Nursing 400. Understanding of group dynamics theory by assuming leader and member roles. Actual and potential stressors are explored and communication patterns analyzed. Includes examination of pending legislation, health planning, professional organizations and community health advocacy groups.

402 Community Health Nursing (3)

Prerequisites: junior level nursing courses. Corequisite: Nursing 402L. Nursing 400 and 400L must be taken prior to or concurrently. Theories of community health and nursing synthesized to help students facilitate the adaptation process of clients, families and communities to attain and maintain optimal health. Emphasis on family health care, assessment of community health needs, advocacy, collaborative role. Will be another long and box autilized

402L Community Health Nursing: Clinical (3)

Prerequisites: junior level nursing courses. Corequisite: Nursing 402. Application of community health nursing concepts to family health care in the community milieu. Students collaborate with families and others and use community resources to promote optimal family health and improve health status. (Clinical 9

search finding result to support marking interventions to reduce

450 Nursing Research (2)

Prerequisites: junior level nursing courses, upper division statistics course. Corequisite: Nursing 450L. Historical, philosophical, and ethical aspects of nursing research. Relationship between nursing research and professional accountability. Principles and methods of research process with emphasis on evaluating research for use in leadership and professional role.

450L Nursing Research: Laboratory (1)

Prerequisites: junior level nursing courses, upper division statistics course. Corequisite: Nursing 450. Evaluation of specific nursing studies to determine significance and applicability to nursing practice.

452 Leadership/Management in Professional Nursing (3)

Prerequisites: Nursing 402, 402L. Corequisite: Nursing 452L. Nursing 450 and 450L must be taken prior to or concurrently. Theories of leadership/management; concepts of power, motivation, decision-making, change and management skills related to the professional nursing role in the health care system.

452L Leadership/Management in Professional Nursing: Clinical (3)

Prerequisites: Nursing 402, 402L. Corequisite: Nursing 452. Nursing 450 and 450L must be taken prior to or concurrently. Application of leadership/management theories and skills in student-selected and faculty approved clinical settings. (Clinical 9 ogy; and the role of health professionals in the promodernod

499 Independent Study in Nursing (1-3)

Prerequisites: senior standing in nursing and/or consent of instructor. Individually supervised studies and/or projects.

305 Professional Perspectage 1004 Profession 1004 Professional Profess

357 Health Promotion: Adult-Aged Norming (3) traduct

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Department of Reading



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220 Powie Readileys Pates and Chinesa Interpretation (3) nam Reading prive developed through flexible rate and application of

processes for logically analyting and entired by adeas as represent-

340. Fostering Language Growth for Reading Readiness (3)

Freequesics, Child Development 312, Psychology 361 or equivalent or conseque matructor. Explores function of receptive and

Department Chair: Ashley Bishop

Department Office: Education Classroom 577

Programs Offered

Master of Science in Education and seasons of motor and A

Concentration in Reading

Reading Specialist Credential Faculty save bus accounts are lesson absolutes sidely one case

Ashley Bishop, Norma Inabinette, Ruth May-Siegrist, JoAnn Carter-Wells

UNDERGRADUATE READING DEVELOPMENT COURSES

Lower division courses in reading (Reading 105, 201, 202, and 290) and an upper-division course (Reading 320) are designed to assist students in developing and utilizing a problem solving approach in the critical and creative reading and thinking processes required for efficient university learning.

READING SPECIALIST CREDENTIAL

The Commission for Teacher Preparation and Licensing has granted approval to the Reading Department to offer a reading specialist credential program.

Persons wishing to earn an advanced Reading Specialist Credential must make formal application to the university indicating the specific specialist credential program desired. In addition, applicants must meet the following requirements.

- 1. have completed of a bachelor's degree;
- 2. have earned a grade-point average of at least 2.50 in the last 60 undergraduate units completed and at least 3.0 in graduate units completed;
- 3. have possession of a multiple subject or single subject credential or another valid California standard teaching credential; and
- 4. have successfully completed a minimum of one year of teaching.

Advisement is available to any student seeking a Reading Specialist Credential. New students will be assigned an adviser upon acceptance in the program. Prior to their first semester in the program students should meet with an advisor to develop a creading 500 Cross-Cultural Approach and ybust liaid that Reading Language, Arts (2)

For Further Information 2013 garage sweet 052 garages 2

Please contact the Department office, Education Classroom Building, Room 577, phone (714) 773-3356.

MASTER OF SCIENCE IN EDUCATION (READING)

The program is designed to help qualified individuals gain the technical knowledge and scholarship requisite to becoming reading specialists. This professional program is based on and combined with sound preparation in the liberal arts and sciences. The curriculum proposes an interdisciplinary approach to the preparation of the professional specialist in reading.

Admission to Graduate Standing: Conditionally Classified

University requirements include: a baccalaureate from an accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted (see "Graduate Admissions" section of this catalog for complete statement and procedures). In addition, an applicant must have an approved major, complete an application to the Reading Department and confer with the graduate program adviser to discuss the prerequisites for attaining classified standing.

Graduate Standing: Classified

A student who meets the admission requirements and the following requirements may be granted classified graduate standing upon the development of an approved study plan: successful teaching experience or other approved experience; a grade-point average of 2.5 or better in academic and related work; sufficient background in reading; a satisfactory interview; and four references from school administrators, school supervisors or professors.

Study Plan

The final adviser-approved program of course work for the degree must include:

Units englist exectential program desired. In addulors senti-	S
Core course work)
Reading 510 Research Design and Analysis (3)	
Ed Elm 536 Curriculum Theory and Development (3)	

Reading 516 Testing and Evaluation of Reading Performance (4)

- rentment			about an rank			4							
Courses	for	the	concentration	in	reading		 	*					19

Reading 507 Current Trends in Secondary and College Reading Programs (3)

Reading 508 Teaching Reading/Language Arts in Today's Elementary School (3)

Reading 520 Computers in Reading (2)

Reading 581 Remediation of Reading Difficulties (4)

Reading 514 Linguistics and Reading (3)

Reading 560 Cross-Cultural Approaches to Teaching Reading/Language Arts (2)

Reading 570 Developing Literature-Based Reading/ Language Arts Programs (2)

Culminating Experience

Reading 595 Advanced Studies (includes comprehensive examination) (1-3)

Reading 597 Project (1-3) or Reading 598 Thesis (1-3)

For advisement and further information, consult the program graduate adviser.

Reading Courses

105 Reading Speed and Efficiency (1)

Five week course to develop students flexible rate of reading and ability to efficiently comprehend and retain text information. Includes pretests, completion of practice exercises, and post evaluation.

201 Academic Reading: Analyses and Strategies (3)

Analysis of reading and learning processes, reading interpretation and critical thinking strategies as applied to all types of academic reading, emphasis on integration and synthesis of academic information.

202 Vocabulary Cognition and Reading Comprehension (3) Study and analysis of general and academic vocabularies and their influence on reading comprehension and communication. Emphasis on language knowledge and the development of contextual analysis and word association processes in reading communication.

290 Critical Reading as Critical Thinking (3)

Relationship of critical reading to critical thinking. Emphasis on the development of critical thinking skills with application in the interpretation, analysis, criticism and advocacy of ideas encountered in academic readings.

320 Power Reading: Rate and Critical Interpretation (3)

Reading power developed through flexible rate and application of critical thought to written discourse. Emphasis on systematic processes for logically analyzing and criticizing ideas as represented in selected readings.

340 Fostering Language Growth for Reading Readiness (3)

Prerequisites: Child Development 312, Psychology 361 or equivalent or consent of instructor. Explores function of receptive and expressive language development as they relate to reading readiness in young children.

480 The Teaching of Reading (4)

Prerequisite: consent of instructor. Curriculum and methods in the teaching of reading and language arts in the elementary and secondary schools. Teachers' manuals and guides are introduced and studied. A major focus will be the preparation of reading lessons for classroom settings.

501 Assessment of Reading Specialist Competencies (1) (Formerly 582I)

Prerequisite: consent of instructor or graduate adviser. Assessment of competencies of students entering the Reading program in preparation of the Reading Specialist Credential.

507 Current Trends in Secondary and College Reading Programs (3)

Prerequisite: consent of instructor or graduate adviser. Current trends in the teaching of secondary and college reading improvement with emphasis on materials, organization and methods of instruction.

508 Teaching Reading/Language Arts in Today's Elementary

Current trends in the teaching of elementary reading/language arts. The role of the teacher as a decision-maker in the elementary reading/language arts program.

510 Research Design and Analysis (3) (Same as Ed Sec 510)

514 Linguistics and Reading (3) (Formerly 584)

Prerequisite: consent of graduate adviser or instructor. A study of linguistics and its influence on reading materials and instruction. An analysis of trends in linquistics as they relate to the teaching of reading.

516 Testing and Evaluation of Reading Performance (4)

Prerequisite: Reading 507, 508, 514 or consent of instructor. A study of the administration, evaluation, and interpretation of individual and group tests related to reading/language arts performance. Course includes in-depth analysis of a problem reader with a study of the effects of linguistic, social, physical, psychological, educational and cultural factors which may influence reading and test performance.

520 Computers in Reading (2)

Prerequisites: Consent of instructor and Reading 507, 508 or equivalent. Exploration of the impact of computers on reading and language arts; investigation of the strengths/limitations and applications of varying types of software for reading/language arts development. Clinic component included.

560 Cross Cultural Approaches to Teaching Reading/ Language Arts (2)

Prerequisite: Reading 507 or 508, or consent of instructor or graduate advisor. Theory and research in teaching reading/language arts to students of diverse cultural and linguistic backgrounds. Understanding issues and concepts of various approaches. Using appropriate materials and strategies for teaching literacy skills to diverse groups. House I control of the control

570 Developing Literature-Based Reading/Language Arts

Recommended: English 433 and/or 434 or the equivalent. Processes for developing literature based reading/language arts instructional programs. Emphasis on using literature to promote readiness for reading, independent reading skills, and positive attitudes in students.

581 Remediation of Reading Difficulties (4)

Prerequisite: Reading 507, 516 or consent of instructor. Analysis and diagnosis of reading/language arts difficulties. Techniques and methods of prevention and treatment. Individual remediation of student. Primary through secondary.

585 Professional Development in Reading/Language Arts (3)

Prerequisite: consent of instructor or graduate adviser. Seminar in development and evaluation of reading/language arts programs. Training in staff development and interpersonal relations with teachers, parents, consultants, and administrators. Includes writing for publication, grant proposal writing, and other professional responsibilities.

595 Advanced Studies (1-3)

Prerequisite: consent of instructor or graduate adviser. Graduate seminars designed to develop competencies in such areas as behavior, teaching strategies, educational technology, program development, communication theory and interpersonal relations related to reading/language arts.

597 Project (1-3)

Prerequisite: consent of instructor or graduate adviser. Individual research on an empirical project, with conferences with the instructor, culminating in a project.

598 Thesis (1-3)

Prerequisite: consent of instructor or graduate adviser. Individual research with conferences with the instructor, culminating in a

599 Independent Graduate Research (1-3)

Prerequisite: consent of instructor or graduate adviser. Independent inquiry for qualified graduate students.

Department of Prerequisite: consent of instructor. Carriculum and methods in Secondary Education

Chair: Paul W. Kane Department Office: Education Classroom 379

Program Offered

Basic Teacher Credential Program

Single Subject Credential State Control to the Subject Control to the Subj

Faculty

Gerald Gannon (Mathematics Education), James Cusick (Secondary Education), Vance Wolverton (Music Education), Paul Kane, (Secondary Education), Emmet Long and Joyce Flocken (Speech Education), Helen Taylor (Business Education), Eugene McGarry (Secondary Education), Sallie Mitchell (Theatre Education), Maria Montano-Harmon (Secondary Education) David Pagni (Mathematics Education), Dorte Christjansen (Art Education), Nancy Reckinger (Secondary Education), Ron Pahl (Secondary Education), Eric Streitberger (Science Education), Jackie Kiraithe (Foreign Languages Education), John White (English Education), Deborah Hancock (Secondary Education), Jon Zimmermann (Foreign Languages Education)

Single Subject Credentials and Waiver Programs

Although a person seeking a Single Subject Credential may complete any academic major, the person would most likely decide to complete the degree major closest to the subject field he or she wishes to be authorized to teach. CSUF offers the Single Subject credential in the following State-authorized subject fields:

Art

Art Sur days in accompany of the long teaching seminary and a surface seminary surface seminary and a surface seminary of the surface seminary of the

English (English, Speech, Theatre)

French

German

Government (Political Science)

Prerequisite: consent of instructor or graduate adviser. Visit Life Science (Biology) Dia 1391019 Isolated as do domosa

Mathematics

Music

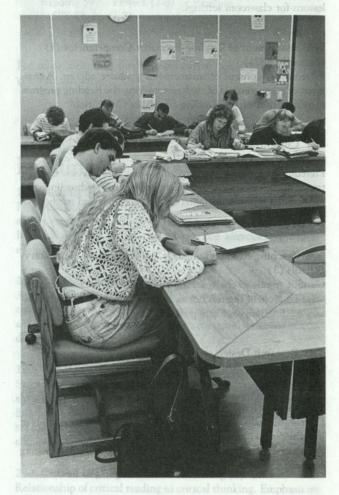
Physical Education

Physical Sciences (Chemistry, Geology and Physics) 7 802

Social Sciences (Anthropology, American Studies,

Economics, Geography, Chicano Studies, History, Afro-Ethnic Studies, Psychology and Sociology)

structor, culminating in a project court an



518 Testing and Statustics of Realing Reformance (4) best study of the administration, evaluation; and interpretation of logicaloxeducational/and cultural factors which adapoinfilmences

Secondary Education Courses

110 The Teaching Experience: Exploration (2)

Exploration of one's self in relation to other people in the schools and an encounter with the teaching experience through fieldwork. Accompanying seminar to help students extend their observations and explore relevant issues. (2 hours fieldwork, 2 hours seminar) (Credit/no credit only)

310 The Teaching Experience: Participation (3)

Active participation in school classrooms and analysis of the experience. Accompanying seminar will help students to analyze their fieldwork experiences. (4 hours fieldwork, 1 hour seminar) May be repeated with consent of instructor. Credit/no credit only. A "B" or better is required to receive a grade of credit.

386 Adolescence (3)

The physical, social and cultural development of human adolescents and youth. Contemporary factors producing change.

404 Microcomputers for Secondary School Classrooms (3) Prerequisite: Ed Sec 310. A course for secondary school teachers to use microcomputers in computer-assisted instruction in various curriculum areas and as an instructional tool.

405 Methods of Teaching Secondary School Business Courses Involving Computers (3)

Prerequisites: Ed Sec 310 or equivalent; Management Science 263 and 264 or Management Science 265 or equivalent. A teaching strategies course for business education teachers. Curriculum development techniques and problems of teaching business courses involving computers. Review and evaluation of texts, software, and other materials for instruction are included.

406 Educational Sociology (3)

The school in the social order; the school as a social system analysis of cultural factors affecting the school; the special culture of the school; roles and role conflicts in the school policy questions flowing from social issues and school cultural relationships.

440F Supervised Fieldwork in Secondary Schools (2)

Prerequisites: admission to teacher education. Observation and participation in instruction in secondary school learning centers 3 hours daily. Fieldwork associated with Ed Sec 440R, 440S and 442. Taken concurrently with these courses. Must be taken Credit/ No Credit. A "B" or better is required to receive a grade of credit.

440M Multicultural Education in Public Schools (3)

Prerequisite: Ed Sec 310 or equivalent. Techniques and methods for infusing multicultural elements into all subject fields in the public schools; development and evaluation of instructional strategies and resources; and examination of issues of multicultural education. Must be taken Credit/No Credit. A "B" or better is required to receive a grade of credit.

440R Instruction in Reading for Secondary School Teaching (3)

Prerequisites: admission to teacher education. Instruction in developmental reading for prospective teachers in single subjects. Taken concurrently with Ed Sec 440F, 440S and 442. Must be taken Credit/No Credit. A "B" or better is required to receive a grade of credit.

440S Foundations of Secondary School Teaching (4)

Prerequisites: admission to teacher education. Teaching competencies related to adolescent development, learning process and diagnosis of learning problems, evaluation of pupil achievement, and cultural differences of secondary school youth. Taken concurrently with Ed Sec 440F, 440R and 442. Must be taken Credit/ No Credit. A "B" or better is required to receive a grade of credit.

442 Teaching-in the Secondary School (3)

Prerequisite: admission to teacher education. Strategies and techniques for teaching a specified subject in the secondary school. Required before student teaching in the specified single subject credential area. Must be taken Credit/No Credit. A "B" or better is required to receive a grade of credit.

Art Ed 442 Teaching Art in the Secondary School

Ed Sec 442 Teaching Business in the Secondary School

Ed Sec 442S Teaching Social Science in the Secondary School

Engl Ed 442 Teaching English in the Secondary School For Lang Ed 442 Teaching Foreign Languages in the Secondary School

Math Ed 442 Teaching Mathematics in the Secondary School Mu Ed 442 Principles and Methods of Teaching Music in the Public Schools

Phys Ed 442 Teaching Physical Education in the Secondary School

Sci Ed 442 Teaching Science in the Secondary School Speech Ed 442 Teaching Speech in the Secondary School Theatre Ed 442 Teaching Theatre in the Secondary School

449E Externship in Secondary Teaching (3)

Prerequisite: concurrent enrollment in Ed Sec 440F, 440S and 442. Co-teaching in two secondary school classrooms. Integrated with Ed Sec 440F, 440R, 440S and 442. (See appropriate departmental offerings.) Must be taken Credit/ No Credit. A "B" or better is required to receive a grade of credit.

449I Internship in Secondary Teaching (10)

Prerequisite: admission to student teaching. Full time student teaching in a specific single subject in a secondary school. (See appropriate departmental offerings.) Must be taken Credit/No Credit. A "B" or better is required to receive a grade of credit.

449S Seminar in Secondary Teaching (2)

Co-requisite Ed Sec 449I. Seminar in problems and teaching in a single subject in secondary schools. (See appropriate departmental offerings.) Must be taken Credit/No Credit. A "B" or better is required to receive a grade of credit.

499 Independent Study (1-3)

Prerequisites: senior or graduate standing, approval of instructor and department. Conduct of an individual investigation under supervision of a faculty member; investigation might be an experiment, a library study, or a creative project; only students of demonstrated capacity and maturity will be approved; adequate prerequisite study necessary.

510 Research Design and Analysis (3)

Prerequisite: graduate standing. Elements of design, instrumentation, treatment of data, hypothesis testing and inference and analysis of educational data. Develop research proposal. Analyzing and evaluating research reports. (Same as Ed Admin 510,

Reading 510, Spec Ed 510) 442 Teaching in the Secondary School (1), white vishnood

techniques for reschippen specified subject in the secondary

449E Externship in Secondary Teaching (31, 23) Salend

Credit. A B or better is required to receive a grade of gredit.

ral otterings.) Must be taken Credit/No Credit. A "B" or better is

4498 Seminar of Secondary Teaching (2) suburt started

550 Instructional Strategies (3)

Prerequisite: baccalaureate degree or consent of instructor. A general course in pedagogy designed for students whose profession work involves instructional responsibilities. General teaching strategies, course design, instruction planning, and student evaluation are emphasized.

551 Program Evaluation in Deduction (3)

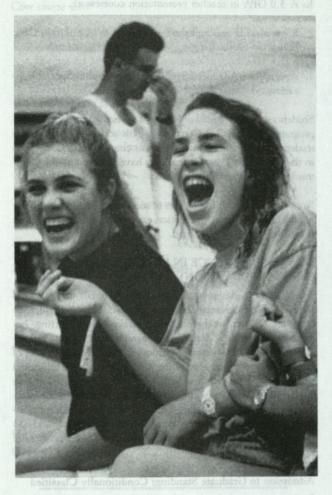
Prerequisite: Ed Sec 510 or Ed Elm 511 or equivalent. Methods of evaluating educational programs. Analysis of the models, theories, and underlying assumptions of evaluation. Data-gathering methods, analysis of data and preparation of reports.

597 Project (1-3)

Prerequisite: consent of instructor. Individual research on an empirical project, with conferences with the instructor, culminating in a project.

440M Multicultural Education in Public Schools (3)

Department of Special Education



Department Chair: Leo J. Schmidt

Department Office: Education Classroom 379

Programs Offered

Master of Science in Education

Concentration in Special Education Advanced Specialist Credentials: Learning Handicapped Severely Handicapped Resource Specialist Certificate of Competency

Stephen Aloia, Calvin Nelson, Leo Schmidt, Shirl Stark

INTRODUCTION

The mission of the Department of Special Education is to develop and implement a curriculum which prepares persons who work with individuals with exceptional needs. This curriculum is designed to give credential and master's degree candidates a broad background in the physiological, environmental and social aspects of exceptionality. It also provides them with the opportunity to develop skills for managing environmental situations to bring about change and assist exceptional persons to be responsible for their own choices and development.

GENERAL INFORMATION REGARDING CREDENTIAL PROGRAMS

The curriculum in specialist preparation meets the requirements of Teacher Preparation and Licensing Act of 1970. The curricula are subject to change pending approval by the Commission for Teacher Preparation and Licensing. Students are advised to contact the special education office for appropriate publications in the event curricular modifications are introduced by commission action.

Note: Students who have not previously done so must pass the California Basic Education Skills Test before they can be recommended for a Special Education Specialist Credential. This requirement should be completed early in the program.

Specialist Credentials

Programs leading to two specialist credentials are available. They

1. Specialist credential to teach the learning handicapped (including the learning disabled, behavior disordered and educationally retarded). A seed mean topod growing with minimum

- 2. Specialist credential to teach the severely handicapped (including the trainable mentally retarded, severely-multiply-handicapped, seriously emotionally disturbed and the autistic).
- 3. Specialist credential to teach the gifted.

All specialist training programs require a generic component and advanced specialist component, for the credential. Completion of the generic component is prerequisite to admission to advanced specialist component.

Persons wishing to earn an advanced Special Education Specialist Credential must make formal application to the university indicating the specific specialist credential objective. In addition, applicants must meet the following requirements:

- 1. completion of a bachelor's degree;
- 2. presentation of a grade-point average of at least 2.75 in the last 60 units earned; and
- 3. possession of a preliminary multiple subject or single subject credential or another valid California standard teaching The mission of the Laparement of Special Educina little and implement a curriculum which prepares persons who work

Advisement is available to any student seeking an advanced specialist credential in the Department of Special Education. New students will be assigned an adviser during the first month of the term in which they enter the Department of Special Education. Students should meet with their adviser during the first semester of enrollment in the Department of Special Education to file a credential study plan. Date assisted away about 101 old

ADVANCED SPECIALIST CREDENTIALS

Each of the two advanced Special Education Specialist Credential programs includes a generic entry core and a specialization focus within the sequence of courses. Students should contact an advisor prior to initiating the study for an Advanced Specialist Credential. This action will ensure the student of being fully aware of current changes or modifications in the credential program that may have been initiated by the Commission on Teacher Credentialing.

RESOURCE SPECIALIST CERTIFICATE OF Competency Programme Education Skills Test before YOUNG

The curriculum for the Resource Specialist Certificate of Competency is designed to prepare candidates having approved entrylevel skills and professional preparation to assume the role as resource specialists in programs serving special education students, their parents and their regular teachers. The certificate program meets the competencies set forth by the California Commission for Teacher Preparation and Licensing as well as additional standards deemed appropriate by the faculty of the Department of Special Education, other university personnel and community advisory board members. Students desiring this cer tificate without enrolling for a degree or credential should apply for admission to the university as postbaccalaureate with a Resource Specialist objective.

Prerequisites and design, income the property and student

- 1. A 3.0 GPA in teacher presentation coursework.
- 2. If not already accomplished, passage of the California Basic Education Skills Test.
- 3. Appropriate Advanced Specialist Credential in Special Education.

Students should contact a department advisor prior to initiating a program for the R.S.P. Certificate. This action will ensure the student of being fully aware of current changes or modifications in the Certificate Program that may have initiated by the Commission on Teacher Credentialing.

Note: Verification of three years of successful teaching involving regular class and special education experience is necessary before the certificate will be granted.

MASTER OF SCIENCE IN EDUCATION (SPECIAL EDUCATION)

The program is designed to: (1) help individuals interpret and implement research related to exceptional children, conduct appropriate research in the classroom and/or clinical setting, become skilled in their abilities to diagnose with educational instruments and observation techniques, interpret the results of diagnostic procedures, prescribe and implement educational strategies; (2) provide teachers with competencies to enable them to fulfill the roles of supervising teachers and demonstration teachers in special classes; (3) prepare individuals for positions of leadership in the field of special education; and (4) prepare individuals to pursue graduate work toward the doctoral degree.

Admission to Graduate Standing: Conditionally Classified

Requirements include a baccalaureate from an accredited institution and a grade-point average of at least 2.75 in the last 60 semester units attempted (see the "Graduate Regulations" section of this catalog for policies and procedures regarding admission).

Graduate Standing: Classified

A student who meets the admission requirements and the following requirements, may be granted classified graduate standing upon the development of an approved study plan: (1) a gradepoint average of 2.75 or better in all previous academic and related work; (2) an approved major; (3) completion of Special Ed 371 Exceptional Individual; (4) satisfactory interview and autobiography; (5) fulfillment of the Graduate Writing Requirement before completing more than nine units. Special Ed 510 fulfills the graduate writing requirement.

Study Plan

The adviser approved 30 units on the study plan will include the following:

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Core course work
Special Ed 510 Research Design and Analysis (3)
Special Ed 586 Curriculum Issues in Special Education (3)
Special Ed 520 Seminar in Measurement: Atypical Children (3)
Special Ed 529 Resource Specialist Seminar:
Consult/Inservice Skills (3)
Special Ed 530 Graduate Seminar: Giftedness/
Creativity (3) or Special Ed 531 Seminar in Development Disability (3) or Special Ed 532 Learning Disabilities Seminar (3)
Electives
Minimum 6 units of 500-level courses; maximum 6 units of 400-level; maximum 6 units from other departments. Electives may be chosen from the following with adviser approval: Special Ed 421, 463, 464, 481, 484, 513, 522, 528, 530, 531, 532, 599
Project/Thesis

For advisement and further information, consult the department graduate adviser.

Total 30

Special Education Courses

371 Exceptional Individual (3)

Special Ed 597 Project

or Special Ed 598 Thesis

Children who deviate from the average in the elementary and the secondary schools; physically handicapped, mentally retarded, gifted, socially maladjusted, and emotionally disturbed. Special educational services, curriculum, procedures, and materials.

411 Mainstreaming (3)

A course designed to assist regular and special class teachers, school administrators and parents to implement the "Least Restrictive Environment" placement requirement of Public Law 94-142. Emphasis will be placed upon techniques to modify regular classrooms in order to accommodate handicapped children.

421 Working With Parents of Children With Exceptional Needs (3)

Patterns and problems of child rearing in families with exceptional children. Role of teachers and other professionals in developing cooperative programs involving parents and/or other family members. Community resources. Designing change programs.

463 Exceptionality: Cognitive-Affective Characteristics (3) Individuals who deviate from the norm in cognitive and emotional functioning; the educable mentally retarded, gifted, slow learner, behaviorally disordered and emotionally disturbed.

464 Exceptionality: Physical-Sensory Characteristics (3) Individuals who deviate from the norm in physical-sensory functioning; the visually handicapped, multiply handicapped, physically handicapped, and trainable mentally retarded.

481 Measurement in Special Education (3)

Prerequisite: Special Ed 371 or equivalent. The practical and theoretical aspects of measurement and assessment in special education. Teacher-made as well as commercial test as they relate to special education will be considered. Interpretation of multicultural and ethical problems will be considered.

482A Exceptionality: Curriculum and Methods for the Learning Handicapped (3)

Prerequisites: Special Ed 371 or 411. Curriculum development, methods and materials for teaching the learning handicapped. Lectures, demonstrations and practicum.

482B Exceptionality: Curriculum and Methods for the Severely Handicapped (3)

Prerequisite: Special Ed 371 or 411. Curriculum development, methods and materials for teaching the severely handicapped. Lectures

484 Exceptionality: Noneducational Implications (3)

Prerequisite: Special Ed 371 or 411. Economic and social implications of exceptionality. The adjustment of the exceptional individual to society. Society's accommodation to the individual.

496 Senior Educational Practicum (1-3)

Conduct at an advanced level an educational practicum with educationally handicapped children.

499 Independent Study (1-3)

Prerequisites: senior or graduate standing and consent of instructor. Individual studies under the direction of faculty member. Experimental, library, or creative projects.

510 Research Design and Analysis (3)

(Same as Ed Sec 510)

513 Exceptionality: Application of Contemporary Humanistic and Holistic Research (3)

Prerequisite: graduate standing or consent of instructor. A graduate seminar to explore humanistic theories and holistic process as a significant contemporary approach to curricular formulation for the education of the exceptional individual.

520 Seminar in Measurement: Atypical Children (3)

Prerequisite: Special Ed 481 or equivalent. Principles of measurement and the evaluation of atypical children. Areas covered: teacher design tests; normed tests and exceptional children; and using test for instructional planning.

522 Behavior Problems in the Classroom (3)

Prerequisite: Special Ed 371 or consent of instructor. Identification and management of social and affective disturbances related to school performance. Early detection, behavioral modification techniques, parent counseling, interagency cooperation.

528 Resource Specialist Seminar: Curriculum, Assessment and Management (3)

Prerequisites: Special Ed 463 and 464. Designed to prepare teachers to perform the coordination tasks of resource specialists. Focus is on curriculum, legal requirements of resource specialists programs, coordination functions and skills, and direct service to teachers and students.

529 Resource Specialist Seminar: Consulting and Inservice

Prerequisites: Special Ed 463 and 464. To prepare teachers to perform consultation and staff development tasks required of resource specialists. Focus: collaborative consultation with other teachers, content and format for inservice activities, skills needed when working with decision-making groups.

530 Graduate Seminar in Giftedness and Creativity (3)

Prerequisite: Special Ed 463 or consent of instructor. An examination of varieties of higher cognitive functioning and those characteristics or performances described as creativity. Focus on ways to enhance skills in analysis, synthesis, evaluation, creative problem solving and divergent productions.

496 Senior Educational Fracticum (1-3) - VOICET SQUARY

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531 Exceptionality: Seminar in Developmental Disabilities (3)

Prerequisite: Special Ed 463 or 464 or consent of instructor. Analysis of selected problems in the field of developmental disabilities with major emphasis upon independent investigation into contemporary theoretical and research contributions.

532 Learning Disabilities Seminar (3)

Prerequisite: Special Ed 463 or equivalent and consent of instructor. Analysis of selected problems in the field of learning disabilities with major emphases on independent investigation into the contributions of contemporary theory and research, and the review of emerging trends.

573 Exceptionality: Advanced Practices (3)

Prerequisite: Special Ed 482. The application of specific educational, management, communication, and supervisory skills among administrators, teachers, aides, pupils, and parents. Weekly seminar and 120 hours fieldwork minimum.

586 Curriculum Issues in Special Ed (3)

Prerequisite: admission to graduate status and permission of the instructor. The philosophical, social, economic, and educational issues which underly decision-making with respect to curriculum and methods selection in special education.

597 Project (1-3)

Prerequisite: consent of instructor. Individual research on an empirical project, with conferences with the instructor, culminating in a project.

598 Thesis (1-3)

Prerequisite: consent of instructor. Individual research with conferences with the instructor, culminating in a thesis.

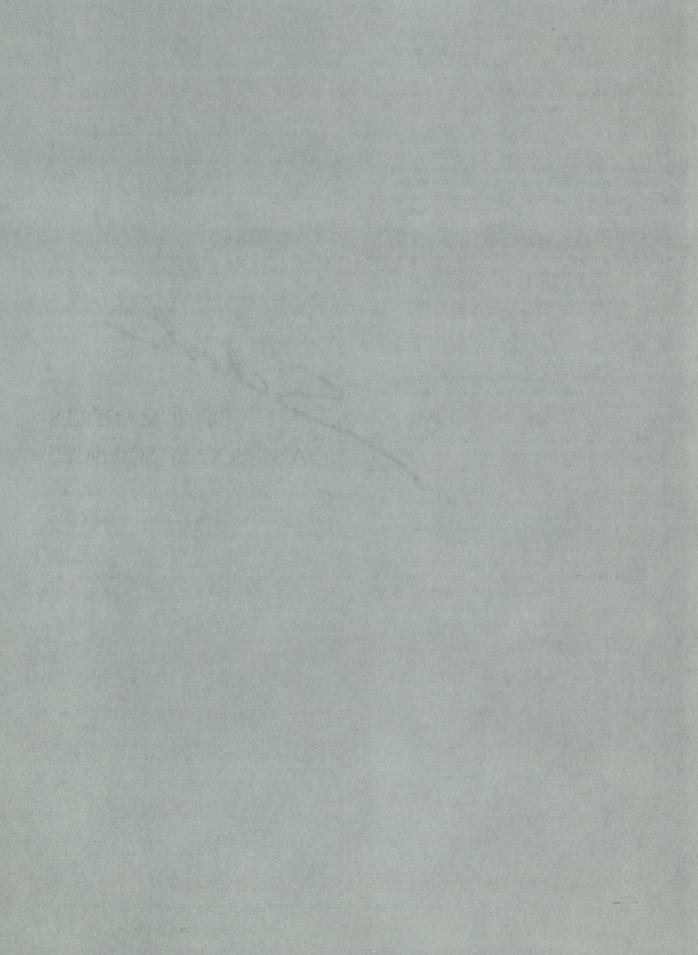
599 Independent Graduate Research (1-3)

Prerequisite: consent of instructor. Independent inquiry. For qualified graduate students.

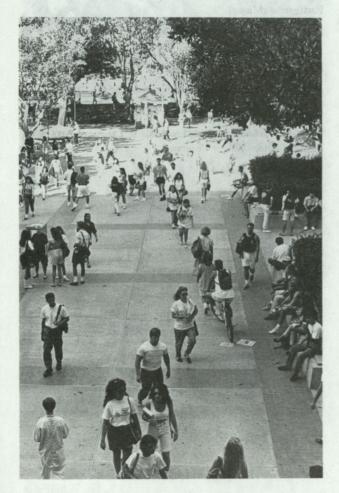
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point average of 2.75 or better in all evicinity accommon and

OF HUMANITIES
AND SOCIAL SCIENCES



School of Humanities and Social Sciences



Dean: Don Schweitzer Associate Dean: Chris Cozby Coordinator of Student Academic Affairs: Leon Gilbert Assistant Dean, Student Affairs: John Hernandez

The School of Humanities and Social Sciences is composed of 15 departments, 8 cross-disciplinary programs and 5 special study centers. These units offer programs of study leading to 27 different minors, bachelor's degrees in 20 disciplines, 2 post-baccalaureate certificates, and master's degrees in 18 areas.

Some of these programs represent traditional areas of intellectual inquiry, others focus on emerging topics of study, and still others are professionally oriented. The common elements that unite these very different programs are recognition of the importance of traditional scholarship, the values reflected by it, social responsibility, free and critical inquiry, empirical analysis, and the development of leadership. Together these common elements prepare students for intellectually rewarding lives, responsible citizenship, and a wide variety of possible careers by developing critical thinking, clear writing, problem solving skills, and heightened understanding of the human condition.

Student Advisement and General Information

Academic advisement is provided by each of the departments and programs within the school. In addition, the school maintains an academic advisement office in McCarthy Hall 103 to serve students who have declared Humanities and Social Sciences as their school of interest, and to provide general coordination of advisement within the school.

Student organization activities within the school are facilitated and coordinated through the Humanities and Social Sciences Interclub Council and Marc Kellenberger.

Programs Offered

Afro-Ethnic Studies

(Option in B.A. Ethnic Studies, Minor)

American Studies (M.A., B.A., Minor)

Anthropology (M.A., B.A., Minor)

Chicano Studies

(Option in B.A. Ethnic Studies, Minor)

Christian Studies (Minor)

Comparative Literature (M.A., B.A.)

Criminal Justice (B.A., Minor)

English (M.A., B.A., Minor)

Environmental Studies (M.S.)

Ethnic Studies, (B.A.)

French (M.A., B.A., Minor)

Geography (M.A., B.A., Minor)

German (M.A., B.A., Minor)

Gerontology (Minor, Certificate)

History (M.A., B.A., Minor)

International Politics (Minor)

Japanese (Minor)

Jewish Studies (Minor)

Latin American Studies (B.A., Minor)

Liberal Studies (B.A.)

Linguistics (M.A., B.A., Minor)

Pacific Rim Studies (Minor)

Peace Studies (Minor)

Philosophy (B.A., Minor)

Political Science (M.A., B.A., Minor)

Portuguese (Minor)

Psychology (M.A., M.S., B.A., Minor)

Public Administration (M.P.A., Concentration in B.A.

Political Science, Minor)

Religious Studies (B.A., Minor)

Russian and East European Area Studies (B.A.)

Secondary School Teaching Emphasis in Language Arts Area

(Single Subject Waiver Program)

Social Sciences (M.A.)

Sociology (M.A., B.A., Minor)

Spanish (M.A., B.A., Minor)

Teachers of English as a Second Language (Certificate)

Teaching English to Speakers of Other Languages-TESOL

(Concentration in M.S. Education)

Women's Studies (Minor)

Department of Afro-Ethnic Studies



101 Introduction to Ethnic Studies (3)

The aims and objectives of Afro-American studies. The basic terms

Minorities (1) and consumerant some a the (1) and can local Studies 190 and Chicano Studies 190 and Chicano Studies and Chicano Studies 190 and Chican

Department Chair: Emory J. Tolbert Department Office: Education Classroom 475

Programs Offered Bachelor of Arts in Ethnic Studies Option in Afro-Ethnic Studies

Minor in Afro-Ethnic Studies

Wacira Gethaiga, Carl Jackson, J. Owens Smith, Emory J. Tolbert, Billy Vaughn and an Aman A

Adviser

All programs: Wacira Gethaiga

INTRODUCTION (8) no make the same part and a s

Afro-Ethnic studies is a multidisciplinary approach to understanding the black experience as it relates to life in America as part of a world community. In addition to degree programs in Afro-Ethnic studies, the department provides course work in Ethnic Studies in general (e.g. Intercultural Socialization) and other specific ethnic groups (e.g. American Indian).

The required minimum for the Bachelor of Arts in Afro-Ethnic Studies consists of 36 units: 101 or 107, 190, 280 and a minimum of 24 units in upper-division courses as follows.

Students majoring in the Afro-Ethnic Studies program have a special preparation in and sensitivity to life in America as a part of a world community. The program is multi-disciplinary in nature in that all aspects of Afro Ethnic Studies affect and are affected by other programs. Done main and A-net all and

Graduates from the Afro-Ethnic studies program have gone into careers in teaching, community development, community leadership, social work, urban research, law, civil service, industrial relations and a variety of comparable fields. Many have gone into graduate work in this field and some have entered more traditional disciplines where a general knowledge of social sciences and humanities is a prerequisite.

BACHELOR OF ARTS IN ETHNIC STUDIES OPTION IN AFRO-ETHNIC STUDIES

Lower Division Courses (12 units required)

Core Courses (9 units required) of normal solution A

Afro 101 Introduction to Ethnic Studies (3) or Afro 107 Introduction to Afro-American Studies (3)

Afro 190 Survey of American History with Emphasis on

Ethnic Minorities (3) Afro 280 Afro-American History (3) Electives (3 units required)

Afro 220 The Indian in American History (3)

Afro 245 A Survey of Black Political Development to 1900 (3)

Afro 290 Social Research Methods in Afro-Ethnic Studies (3)

Upper Division Courses (24 units required)

Social Science Courses (12 units required)

Afro 309 The Black Family (3)

Afro 311 Intracultural Socialization Patterns (3)

Afro 317 Black Politics (3)

Afro 422 Psych of the Afro American (3)

Humanities Core Courses (6 units required)

Afro 301 Afro-American Culture (3)

Afro 410 Afro-American Literature (3)

Electives (6 units required)

Afro 310 Black Women in America (3)

Afro 312 American Indian Women (3)

Afro 314 Pan-African Dance & Movement (3)

Afro 320 Black American Intellectual Thought (3)

Afro 321 Minority Community Development Planning (3)

Afro 325 African-American Religion (3)

Afro 335 History of Racism (3)

Afro 346 The African Experience (3)

Afro 352 African Literature (3)

Afro 385 Schools and Minority Groups (3)

Afro 403 Oral History of Ethnic America (3)

Afro 430 A Social Psychological Study in Ethnic Minority Behavior (3)

Afro 437 American Indian Religions and Philosophy (3)

Afro 460 Afro-Amer Music Appreciation (3)

Afro 463 Seminar in Black Music (3)

Afro 483 Black Child and the Education System (3)

Afro 485 Pan-Africanism and Contemporary Issues (3)

Afro 499 Independent Study (1-3)

MINOR IN AFRO-ETHNIC STUDIES

Students interested in the Afro-Ethnic studies minor are required to take a minimum of 21 units. This includes nine units of lower-division courses and twelve units of upper-division courses.

Lower Division Courses (9 units) A 2014 TO ACCEPTABLE

Core Courses (6 units) CUTTE DIMHTS OFFA ME MOTTED

Afro 101 Introduction to Ethnic Studies (3)

or Afro 107 Introduction to Afro-American Studies (3)

Afro 190 Survey of American History with Emphasis on

Ethnic Minorities (3) A on A or noitoubound 701 on A re-

Ethnic Minorities (3)
Afro 280 Afro-American History (3)

Electives (3 units)

Afro 220 The Indian in American History (3)

Afro 245 A Survey of Black Political Development to 1900 (3)

Afro 290 Social Research Methods in Afro-Ethnic Studies (3)

Upper Division Courses (12 units)

Social Sciences (6 units)

Afro 309 The Black Family (3)

Afro 311 Intracultural Socialization Patterns (3)

Afro 317 Black Politics (3)

Afro 430 A Social Psychological Study in Ethnic Minority Behavior (3)

Afro 422 Psychology of the Afro-American (3)

Humanities and Electives (6 units)

Afro 301 Afro-American Culture (3)

Afro 310 Black Women in America (3)

Afro 312 American Indian Women (3)

Afro 314 Pan-African Dance & Movement (3)

Afro 320 Black American Intellectual Thought (3)

Afro 321 Minority Community Development Planning (3)

Afro 325 African-American Religion (3)

Afro 335 History of Racism (3)

Afro 346 The African Experience (3)

Afro 352 African Literature (3)

Afro 385 Schools and Minority Groups (3)

Afro 410 Afro-American Literature (3)

Afro 463 Seminar in Black Music (3)

Afro 483 Black Child and the Education System (3)

Afro 485 Pan Africanism and Contemporary Issues (3)

Afro 499 Independent Studies (1, 2, 3)

Afro-Ethnic Studies Courses

101 Introduction to Ethnic Studies (3)

The perspective through which black and brown people have come to see themselves in terms of their own heroes, culture and contributions to societies in which they live and world society in general.

107 Introduction to Afro-American Studies (3)

The aims and objectives of Afro-American studies. The basic terms and references that give substance to Afro-American studies.

190 Survey of American History with Emphasis on Ethnic Minorities (3)

(Same as History 190 and Chicano Studies 190)

220 The Indian in American History (3)

A chronological study of the history of the American Indian people and their struggle for survival from the pre-European era to present.

245 A Survey of Black Political Development to 1900 (3)

A study in the background of black American political development in the United States and the influence that slavery had on the lifestyle of blacks in American political development.

280 Afro-American History (3)

A survey of the social, economic, political, cultural history of black Americans from African origins to present. Among the topics will be the history of slavery, the development of racism, accomodation and protest, black nationalism and the civil rights movement.

290 Social Research Methods in Afro-Ethnic Studies (3)

Prerequisite: Psychology 201 or consent of instructor. Research methods and designs in gathering data in social theory, sampling statistics. Introduction to techniques in data processing analysis, method designs and oral historical research.

301 Afro-American Culture (3)

Prerequisites: Afro-Ethnic Studies 101 or 107 or 190 or consent of instructor. African cultural characteristics in the New World and contemporary events, including art, ideas, dance and literature.

309 The Black Family (3)

Prerequisites: Afro-Ethnic Studies 101 or 107 or 190 or consent of instructor. The American social conditions that shaped the black family from the African cultural patterns to the family that exists today. The roles of poverty, racism and discrimination.

310 Black Women in America (3)

Prerequisite: Afro-Ethnic Studies 190. Issues in the study of black women in America, including social, political, economic and intellectual development. Historical and contemporary issues as they affect black American women will be investigated.

311 Intracultural Socialization Patterns (3)

Patterns of role learning as they vary within subpopulations; changes over time in the values, attitudes, and goals of both the general culture and of subcultures; stereotypes and realities; understanding and dealing with cultural variation as well as cultural "norms." (Same as Human Services 311)

312 American Indian Women (3)

Prerequisite: Afro-Ethnic Studies 101 or consent of instructor. The female role in American Indian tribal lifestyles. Labor divisions, leadership, political and social activities from a number of tribes. Historical and contemporary issues, as they affect American Indian women.

314 Pan-African Dance and Movement (3)

Theory and practice of movement of African and Haitian peoples. Movement (dance) as quasi-language in perpetuating the life style of African cultures and cultures of African descent.

317 Black Politics (3)

Prerequisite: Political Science 100 and Afro-Ethnic Studies 107 or consent of instructor. Blacks' struggle for political equality and relief from political oppression. Public policies concerning blacks' freedoms, liberties and property rights. (Same as Political Science 317)

320 Black American Intellectual Thought (3)

Prerequisite: Afro-Ethnic Studies 190. A study of the black American intellectual from slavery to contemporary times, with special emphasis on black contributions to American political and social thought as well as their contributions in America's social development.

321 Minority Community Development Planning (3)

Prerequisites: Afro-Ethnic Studies 245 and 317 or permission of instructor. This course is an interdisciplinary approach to the study of political and economic development in minority communities. Emphasis is placed on conceptualizing problems and planning and designing problem-solving models to resolve them.

325 African-American Religion (3)

Prerequisites: Afro-Ethnic Studies 190 or consent of instructor. African-American belief systems and denominations. A study of folk beliefs among Blacks, African-American religious groups, and the role of the Black Church in politics and social change in the Black community. (Same as Religious Studies 325)

335 History of Racism (3)

An investigation into the historical roots and current expressions of racism. Course focuses on how racism manifests itself through individual, social, political, economic and religious institutions and proposes methods of combating it.

346 The African Experience (3)

Prerequisite: Upper division standing. African history from the origin of the black man and traditional African civilization through the African diaspora to the institutional realities of Africa today. Not available for credit to students who have completed History 355.

352 African Literature (3)

(Same as English 352 and Comparative Literature 352)

385 Schools and Minority Groups (3)

Prerequisites: Child Development 312 or consent of instructor. Focuses on the ways in which the constraints of formal schooling affect the behaviors and attitudes of ethnic minority group members. Emphasizes the role of the community and family in school readiness and the psychological consequences of schooling.

403 Oral History of Ethnic America (3)

Prerequisite: Afro-Ethnic Studies 190. Theoretical and practical study of oral history focusing on the experiences of American ethnic groups. Examines oral history through the study of oral sources emphasizing traditions, culture and institutions of various ethnic groups.

410 Afro-American Literature (3)

Prerequisites: Afro-Ethnic Studies 107 or English 101 or consent of instructor. The literary contributions by major black American authors. Contemporary black writers and the recurring themes of protest and quest for identity. (Same as English 410.)

422 Psychology of the Afro-American (3)

Black identity and the life styles that have risen from racism. The socioeconomic, political, cultural conditions which have fostered the blackness concept and the psychological devices used by blacks to survive.

430 A Social Psychological Study in Ethnic Minority Behavior (3)

Prerequisites: Afro-Ethnic Studies 101 or 107 or consent of instructor. The social psychological problems that ethnic minorities face such as stress-related problems in mental health. Society's reactions to these problems among these groups.

437 American Indian Religions and Philosophy (3)

Prerequisite: Afro-Ethnic Studies 220 or 311 or consent of instructor. Examination of American Indian religious and philosophic perspectives. Survey of religious interpretations and thought in various facets of belief ranging from traditional Indian religion to Christianity. Contemporary religious activities will be highlighted. (Same as Religious Studies 437)

385 Schools and Minority Groups (3) (sition 6) savue

Prerequisites: Child Development 312 or consent of instructor.
Focuses on the ways in Witch-Wie Constitution of formal actionling

460 Afro-American Music Appreciation (3)

Prerequisites: Afro-Ethnic Studies 107 or 190 or consent of instructor. Black music in America; the sociological conditions that help produce various forms of black music.

463 Seminar in Black Music (3)

Prerequisite: upper-division standing or consent of instructor. Indepth appreciation of Black American musical performance practices and musical styles such as Spirituals, Ragtime, Blues, Jazz, Gospel, and Rhythm & Blues through lecture, discussion, and demonstration. (Same as Music 463)

483 Black Child and the Education System (3)

Prerequisite: Afro-Ethnic Studies 385. The impact of the American Educational System upon the Black child from 1896 to the present.

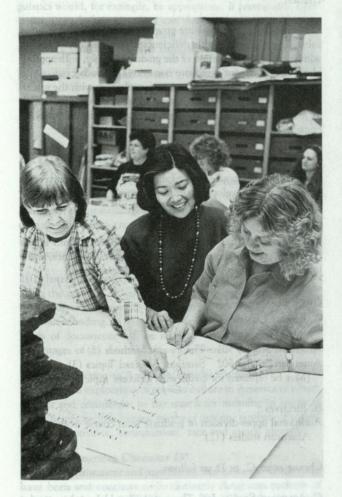
485 Pan-Africanism and Contemporary Issues (3)

Prerequisites: Completion of general education requirement in introductory social sciences. The history and literature of the Pan-African Movement within the framework of Western domination. An analysis of the impact of economic and political control over third world black nations within the context of racism, colonialism, and imperialism. instructor. African cultural characteristics in the New

499 Independent Study (1-3)

Prerequisites: senior level and acceptance of the subject by department chair and instructor directing the study.

derstanding and dealing with cultural variation as well as cultural



Department of **American Studies**

Department Chair: Wayne Hobson

Department Office: Education Classroom 622

Programs Offered

Bachelor of Arts in American Studies

Minor in American Studies

Master of Arts in American Studies

Faculty

Allan Axelrad, Jesse Battan, Janet Bradie, Wayne Hobson, John Ibson, Karen Lystra, Terri Snyder, Michael Steiner, Pamela Steinle, E. James Weaver, Leila Zenderland

Advisers

Undergraduate: All full-time faculty within the department Graduate: Michael Steiner

INTRODUCTION

American studies gives students a thorough understanding of the past and present nature of American civilization. Three central features of our approach are: (1) an emphasis on the analysis of culture - that shared system of beliefs, behaviors, symbols, and material objects through which Americans give meaning to their lives; (2) examination of the interplay between a dominant culture and the many subcultures in America; and (3) an interdisciplinary perspective that uses both the social sciences and humanities.

Besides providing a rich liberal arts education, training in the major develops skills in writing and analysis and strengthens the ability to recognize connections among complex materials and diverse phenomena. American studies graduates obtain careers in business, communications, government service, law, social services, and teaching. The major is also a fine background for graduate work in the field or in related fields.

Teacher Credential

American studies participates in the Ryan Act teacher credential program with course work for secondary school waivers in the social sciences and history, and with course work for the elementary school multiple subject waiver. Because American studies is interdisciplinary, the major provides a particularly fine background for elementary school teaching and for secondary school teaching in the social sciences.

David Jon Vaca Memorial Scholarship

A maximum of \$500 per semester is awarded to an undergraduate major in American studies based on need and academic achievement.

BACHELOR OF ARTS IN AMERICAN STUDIES

The major consists of 36 units: 12 units in the core program and 24 units of electives following either Plan A or B.

Core Program (12 units required of all majors)

- Introduction to American Studies (3)
- The American Character (3) 301
- Seminar in Theory and Method of American Studies (3) 350
- 401 Proseminar in American Studies (3)

Electives (24 upper-division units)

Elective course work is approved by the major adviser following either Plan A or B:

- A. Work in American studies and one or two other fields such as Afro-ethnic studies, anthropology, Chicano studies, communications, criminal justice, English, history, geography, political science, psychology and sociology.
- B. Course work pursuing a particular theme or subject, such as: law and society, sex roles, the visual arts, ethnicity, urbanization, the child and the family, and popular culture.

MINOR IN AMERICAN STUDIES

The minor in American studies requires 21 units: American Studies 201, 301 or 345, and 401, plus 12 units of electives. Six units may be lower division and three units may be taken in a related department upon approval of an American Studies Department adviser, a self and assurged someone variations b

MASTER OF ARTS IN AMERICAN STUDIES

The degree is for qualified students in the arts, humanities and social sciences who are interested in an interdisciplinary approach to American society and culture. The program puts a general emphasis on the processes of social and cultural change. The interdisciplinary form of training, with a focus on a unified approach to American materials, seeks to provide a full vision of our complex pluralistic culture. Particular areas of faculty concentration within the program include: popular culture, folk culture, ethnicity, regionalism, film-art-architecture, Puritanism, Victorianism, sexuality and American culture, and American cultural radicalism, though the student is encouraged to draw upon the knowledge and expertise available in any relevant area of the arts, humanities and social sciences. John Joodse vist

Admission to Graduate Standing: Conditionally Classified

A student must meet the all-university requirements for admission. (Please consult the appropriate section of this catalog for complete information.) In addition, a student must (1) hold a

bachelor's degree with a major, or its equivalent, in American studies or in an appropriate discipline of the humanities or social sciences, (2) have a grade-point-average of at least 3.0 in upperdivision major courses, and (3) submit two satisfactory letters of recommendation from instructors in upper-division major

Students whose undergraduate program indicates certain limited subject, grade, or breadth deficiencies may be considered for admission, at the discretion of the graduate adviser, with approval of the department's graduate committee. In such cases, a student must make up deficiencies, in consultation with the graduate program adviser, and must complete all required courses with at least a B average before classified graduate standing may be considered.

Graduate Standing: Classified

Students will be classified upon fulfillment of the above prerequisites, and after development of an approved study plan.

Study Plan

The program requires 30 units of graduate study: 21 units in the discipline of American studies, 6 units in other disciplines, and 3 units in development of an appropriate research skill.

American Studies (21 units)

A. Required courses

American Studies 501 Theory and Methods (3) American Studies 502 Seminar: Selected Topics (3) (May be repeated for credit with different topic)

B. Electives

Additional upper-division or graduate level course work in American studies (12)

Choose either C. or D. as follows:

- C. American Studies 598 Thesis (3) Should be taken in the semester immediately preceding graduation from the program.
- D. An additional American studies graduate level elective, i.e., American Studies 599, American Studies 502, or American Studies 503 plus successful completion of a three-part take home comprehensive examination based on the department's core reading list.

Other Disciplines (6 units)

Graduate-level seminars in anthropology, art, communications, comparative literature, English, geography, history, political science, sociology.

Elective Skill (3 units)

A student must demonstrate proficiency in a methodological skill appropriate to his or her scholarly interests. In consultation with an adviser, the student will select the skill to be developed. Proficiency in a foreign language, quantitative methods or linguistics would, for example, be appropriate. If prerequisite work is necessary before a student can develop proficiency through three units of course work, that preliminary work will not be counted toward the 30 units required for the M.A. degree.

423 The Search for Community (3),

For further information, consult graduate program adviser.

American Studies Courses

101 Introduction to American Culture Studies (3)

The concepts of interdisciplinary culture studies, focusing on analysis of cultural change in complex, literate society. American culture, including cross-cultural comparisons. Topics include popular culture, subcultures, regionalism, myths and symbols, and culture and personality.

201 Introduction to American Studies (3)

With the concept of culture as a unifying principle, focus is on four separate time periods in order to provide the framework for an understanding of American civilization. Several different kinds of documents will be used to illustrate the nature and advantages of an interdisciplinary approach.

300 Introduction to American Popular Culture (3)

An historical exploration of popular culture in America as it both reflects and contributes to the search for meaning in everyday life. Themes include heroes, myths of success, symbols of power, images of romance, consumerism, race and sexual identity.

301 The American Character (3)

Cultural environment and personality. The extent to which there have been and continue to be distinctly American patterns of belief and behavior. Similarities, as well as class, ethnic, sex and regional differences among Americans.

318 Hollywood and America:

Using Film as a Cultural Document (3)

An examination of Hollywood as a cultural institution. Concentrating on the films of selected periods, analyzes Hollywood's ability to create and transmit symbols and myths, and legitimize new values and patterns of behavior.

333 Visual Arts in Contemporary America (3)

Visual phenomena in America as they reveal changes in recent American culture. Areas covered include the "high" arts (painting, sculpture) as contrasted with the low" arts (advertising, television); the artist as innovator, alienation, the business world, and American values in art.

345 The American Dream (3)

An interdisciplinary analysis, in settings both historical and contemporary, of the myth and reality surrounding the notion of America as a land of unparalleled and unlimited possibilities, especially in the achievement of personal material success.

346 American Culture Through Spectator Sports (3)

Study of the shifting meaning of organized sports in changing American society. Includes analysis of sports rituals, symbols and heroes. Focus is on the cultural significance of amateur and professional football, baseball and basketball.

350 Seminar in Theory & Method of American Studies (3) Prerequisites: American Studies 201 and 301; or consent of instructor. To provide an understanding and appreciation of methodology, theories of society and images of man as they affect American studies contributions to scholarship. Fulfills the course requirement of the university upper-division baccalaureate writing requirement for American studies majors.

360 Cultural Radicalism in America (3)

The designs and strategies for cultural transformation of selected radical groups and individuals from the Puritans to the present.

365 The Culture of the American South (3)

Prerequisite: Completion of the general education requirement for American History and Culture. Examines distinctive cultural patterns in the American South, past and present. Topics include: Southern concepts of work and leisure, race and gender roles, political and religious controversies, literature and folklore, and the South as portrayed in the media.

386A American Social History, 1750-1860 (3) (Same as History 386A)

386B American Social History, 1865-1930 (3) (Same as History 386B)

390 America in Cross-Cultural Perspective (3)

Prerequisites: completion of the general education requirement for American History and Culture or consent of instructor. Compares selected features of American cultural life with those of another national culture. Attention given to comparative historical development as well as to contemporary comparisons. See class schedule for specific topic. May be repeated for credit with a different topic.

393 American Humor (3)

Analyzes the cultural significance of various types of American humor in past and present settings. How humor reinforces existing culture and also serves as an index and agent of cultural change. Humor's relationship to ethnicity, region, social class and sex.

395 The American West in Symbol and Myth (3)

The meaning of the West to American culture through analysis of cultural documents such as explorer and captivity narratives, fiction, art and film. Topics include: perception of wilderness, Indians, frontiersmen and role of West in creating a sexist national mythology.

401 Proseminar in American Studies (3)

Prerequisites: American Studies 201 and 301; or consent of instructor. The relationship between theory and application. Analytic readings and research. Check the class schedule for topics being considered. May be repeated for credit.

402 Religion and American Culture (3)

Prerequisite: Upper division standing. An interdisciplinary analvsis of the religious dimensions of American core culture from colonial settlement to the present. Topics include: Puritanism; rationalization, secularization and feminization; the conversion experience, revivalism and revitalization; fundamentalism and modernism; and civil religion.

405 Images of Crime & Violence in American Culture (3)

Cultural analysis of meanings ascribed to law and order, authority, violence and punishment in the American past and present. Examined in selected symbols, images, traditions, and realities, including: the gun, police, vigilantes, "hard-boiled detectives," "romantic outlaws," and "crime waves."

411 The White Ethnic in America (3)

Past and present cultures of America's white ethnic groups, principally non-Anglo-Saxon people such as the Jews, Irish and Italians. Ethnic stereotypes, the survival, repression and loss of eth-

413 The Shifting Role & Image of the American Male (3)

The effect of economic, social, political and cultural changes on American males. Emphasis on the 19th and 20th centuries.

416 Southern California Culture:

A Study of American Regionalism (3)

Regionalism as a concept and as a fact of American life. Theories of regionalism measured against a study of Southern California and one other distinct American region.

419 Love in America (3)

Prerequisites: Upper-division standing or consent of instructor. Examines changes in the emotional lives of American men and women from the 17th century to the present. Concentrates on enduring and innovative views on the nature of love and the cultural forces that shape its legitimate and illegitimate expression.

420 Childhood and Family in American Culture (3)

Historical and contemporary culture study of childhood and family in America. The idea of childhood, changing concepts of child-rearing, growing up in the American past, the impact of modernization, mother and home as dominant cultural symbols.

423 The Search for Community (3)

Prerequisite: Upper-division standing. Examining the historical transformation and modern reformulation of community in America, the course emphasizes the relationship of the individual to the larger social group. Topics include: freedom, need to belong, alienation, and search for identity.

438 American Minds: Images of Sickness and Health (3)

Prerequisite: upper-division standing. Historically explores cultural changes in American images of the healthy mind. Topics include medical and legal views of insanity, Freud's impact on American thought, literary treatments of madness, and psychological themes in American popular culture.

440 American Folk Culture (3)

Prerequisite: upper-division standing or consent of instructor. Considers American culture from the perspectives of particular folk groups and through the eyes of the "common" person, past and present. Topics include: interpretation of artifacts and oral traditions; relationships between regional, ethnic and folk identity; modernization and folk consciousness.

444 The Built Environment (3)

Prerequisites: Upper-division standing or consent of instructor. Examines how Americans have shaped and structured space from the seventeenth century to the present. Emphasizes the relationship between space, place, architecture, and material culture; the interpretation of cultural landscapes and architectural styles; the changing meanings of the American home.

450 Women in American Society (3)

Socio-cultural history of women and women's movements in American society. Emphasis on 19th and 20th centuries. Examination of cultural models of American womanhood - maternal, domestic, sexual, social - their development and recent changes.

468 Culture in Turmoil: 1960s America (3)

Prerequisite: Upper-division standing. Origins, manifestations, and continuing significance of the turbulence in American culture associated with the 1960s. Accelerated changes which occurred (or seemed to occur) in cultural meanings of authority, achievement, patriotism, sexuality, technology, and consciousness.

498 American Studies Internship (3)

Prerequisite: junior or senior standing and consent of faculty supervisor. Work experience in the public or private sector related to the student's preparation in systematic study of American culture. Hours to be arranged. Limited to American studies majors only.

499 Independent Study (1-3)

Supervised research projects in American studies to be taken with the consent of instructor and department chair. May be repeated for credit.

501 Theory and Methods (3)

The American Studies movement. Its conceptual and methodological development. The way this development was affected by and in turn reflected larger trends in the culture itself.

502 Seminar: Selected Topics (3)

A particular problem or topic as a case study in the use of interdisciplinary methods in American studies. May be repeated for credit.

503 Classics in American Studies (3)

Prerequisites: American Studies 501 or consent of instructor. Critical examination of texts that have been important or influential in the development of American Studies.

598 Thesis (3)

Prerequisite: graduate standing in American studies and consent of graduate coordinator. The writing of a thesis based on original research and its analysis and evaluation.

599 Independent Graduate Research (1-3)

Prerequisite: graduate standing in American studies and consent of graduate coordinator. May be repeated for credit.

Department of Anthropology

Department Chair: Jacob Pandian Department Office: Humanities 420-A Anthropology Museum: Humanities 313 Archaeological Research Facility: Humanities 313

Programs Offered Bachelor of Arts in Anthropology Minor in Anthropology Master of Arts in Anthropology

Faculty

Aileen Baron, Roger Joseph, LeRoy Joesink-Mandeville, Hans Leder, Joseph Nevadomsky, Jacob Pandian, Susan Parman, Marlene Rios, Otto Sadovszky, Richard See, Judy Suchey, Wayne Untereiner, Corinne Wood

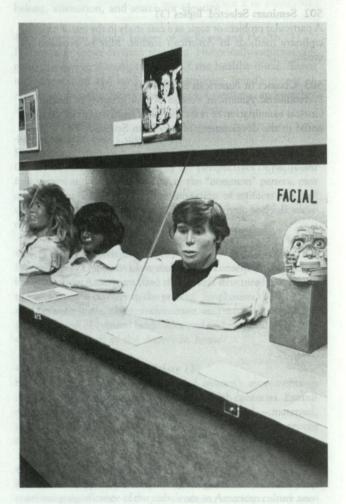
Advisers

Graduate: Jacob Pandian Undergraduate: Jacob Pandian

INTRODUCTION

Anthropology is the scientific study of humankind from its beginnings millions of years ago to the present day. Nothing human is alien to anthropology. Of the many sciences which study certain aspects of our species, only anthropology attempts to understand the whole panorama, in time and space, of the human condition. While other academic disciplines may concentrate on one aspect of human experience, anthropology is an integrated study of the whole range of human activities, including communication and language, economics, political organization, religion, the arts, philosophy, education, medical and nutritional practices, social interaction, marriage, child rearing, science, and technology. Anthropology enables the study of people from all over the world as they live now, as they lived in the prehistoric and historic past, and as they may live in the future. Anthropology also studies people as biological-psychological-cultural-social wholes living in relationship with their environment; a major goal is to understand human beings from this over-all perspective.

The major in Anthropology is designed to prepare students for advanced degrees in Anthropology as well as for positions in the private and public sector. Social service occupations, work in urban centers, museum work, health professions, natural resources management, and overseas work are some of the areas that offer many opportunities for anthropology graduates.



BACHELOR OF ARTS IN ANTHROPOLOGY

Core Requirements (18 units)

Anthro 101	Intro to	Biological	Anthropology	(3)
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Anthro 102 Introduction to Cultural Anthropology (3)

Anthro 103 Introduction to Archaeology (3)

Anthro 300 Language and Culture (3)

Anthro 480 History of Anthropology (3)

Anthro 481 Contemporary Anthropology (3)

Theory (9 units)

Students must take at least three of the following courses:

Anthro 305 Anthropology of Religion (3)

Anthro 306 Comparative Aesthetics and Symbolism (3)

Anthro 409 Applied Anthropology (3)

Anthro 411 Culture and Communication (3)

Anthro 412 Culture Change (3)

Anthro 413 Culture and Personality: Psychological

Anthropology (3)

Anthro 414 Economic Anthropology (3)

Anthro 415 Culture and Nutrition (3)

Anthro 417 Life Quests (3)

Anthro 418 Mental Illness in Cross-Cultural Perspective (3)

Anthro 419 Shamanism in Cross-Cultural Perspective (3)

Anthro 432 Women in Cross-Cultural Perspective (3)

Anthro 440 Human Evolution (3)

Anthro 442 Medical Anthropology (3)

Anthro 450 Culture and Education (3)

Public Archaeology in California (3) Anthro 460

Anthro 470 Survey of Anthropological Films (3) a. Western Cultures and the Western Tradition (3

Methods (9 units)

Students must take at least three of the following courses:

Anthro 401 Ethnographic Field Methods (3)

Anthro 402 Museum Science (3)

Archaeological Fieldwork (3) Anthro 403

Anthro 404 Analytical Methods in Archaeology (3)

Human Osteology (3) Anthro 405

Descriptive Linguistics (3) Anthro 406

Anthro 407 Anthropological Video Production (3)

Anthro 416 Anthropological Linguistics (3)

Human Variation (3) Anthro 441

Anthro 475 Science in Archaeology (3)

Anthro 476 Archaeological Investigations (3)

Anthro 498 Museum Practicum (1-3)

Electives (9 units)

Anthro 100 Non-Western Cultures and The Western 103 Introduction to Archaeology & Halling Tradition (3)

Anthro 104 Traditional Cultures of the World (3)

Anthro 321 The American Indian (3)

Anthro 324A The Ancient Maya (3)

Anthro 324B The Aztecs and Their Predecessors (3)

Anthro 325 Peoples of South America (3)

Origins of Civilization (3) Anthro 327

Peoples of Africa (3) Anthro 328

Anthro 340 Peoples of Asia (3)

Anthro 345 Peoples of Middle East and North Africa (3)

Anthro 346 Archaeology of the Holy Land (3)

Anthro 347 Peoples of the Pacific (3)

Peoples of Ancient Europe (3) Anthro 352

Anthro 360 Contemporary Amer Culture (3)

Anthro 370 Anthropology of Non-Western Films (3)

Anthro 490 Undergraduate Seminar in Anthropology (3)

Internship in Anthropology (3) Anthro 491

Anthro 499 Independent Study (1-3)

Note: Students may take three to nine elective units of coursework from theory and methods categories if those units are not used to meet the requirements of coursework theory or method. Also, students may take three to nine units of coursework in related fields. Courses in related fields must be selected in consultation with the adviser; no related field course will be counted toward the major unless it has the approval of the adviser.

TOTAL — 45 units

MINOR IN ANTHROPOLOGY

Twenty-one units must be taken. Anthropology 100 or 101 or 103; 102; 300 or 416; 480; and 481 are required; plus six additional units of upper-division anthropology.

MASTER OF ARTS IN ANTHROPOLOGY

The program offers advanced study of general anthropology, while simultaneously encouraging specialization in one (or more) of the traditional subdisciplines: archaeology, cultural anthropology, linguistics and physical anthropology. Opportunities for field and laboratory research and for other related learning experiences permit students to enlarge upon formal classroom training and to work independently with original data. Students may pursue a thesis or project of either a traditional or more exploratory character. Efforts are made to assist individuals to plan programs that will meet their individual needs and interests.

Prerequisites

An applicant must meet the university requirements for conditionally classified graduate standing: a baccalaureate from an accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted (see section of this catalog on admission of graduates for complete statement and procedures). Admission is contingent upon evaluation and acceptance by the Graduate Study Committee. The applicant must submit: department questionnaire, letter of intent, transcripts, and at least two letters of recommendation. Students with limited subject or grade deficiencies may be considered for admission to the program if they agree to complete additional courses selected by the Graduate Study Committee, with at least a 3.0 (B) average. Subject deficiencies must be met prior to candidacy. Students entering from other colleges and universities and/or from fields other than anthropology may discuss appropriate course substitutions with the Graduate Study Committee.

Classification

A student who meets the requirements for conditionally classified graduate standing, as well as the following requirements, may be granted classified graduate standing upon the development of an approved study plan:

 A bachelor's degree with a minimum of 27 units in anthropology, including the following courses or their equivalents.

Lower Division Units
Anthro 101, 102 and 103
Upper Division
Anthro 300 or 416, 480 and 481 9
Additional upper-division coursework in Anthropology

Reading courses and special examinations may be substituted for some of these prerequisites by the department.

- 2. A GPA of 3.0 (B) for all work taken in anthropology.
- 3. Classification review administered by the graduate adviser.

Study Plan

The study plan for the degree must include the following:

Land resistant bits absent from the ball the sent Units
Anthro 501 Seminar: Methodology of Anthropological Research
Anthro 502 Contemporary Theory in Anthropology 3 Anthro 598 Thesis
or Anthro 597 Project
Two additional graduate seminars in anthropology 6 400-level or graduate work in anthropology 6
400-level or graduate work in anthropology or
related fields

Up to six units of Anthropology 599, Independent Graduate Research, may be used for requirement 5 and/or 6. For continuation in the program an average of 3.0 (B) for all work in the study plan must be maintained.

Students must remain continuously enrolled, either by enrolling in at least one anthropology course each semester or by enrolling in Graduate Studies 700. Students may request a waiver of this requirement for one or two semesters if professional purposes require absence from campus. A student who is not continuously enrolled will be required to apply for readmission to the program. A thesis or a project, including an oral examination, must be completed for the degree. Normally a student will register for thesis or project two times, for three units each semester. Anthropology 501 and 502 must be taken within the first 1½ years of graduate work.

The progress of graduate students will be reviewed prior to classification and again before advancement to candidacy.

Students must demonstrate to their thesis committee that they have competence in a foreign language or quantitative methods by (1) translating a short text which is approved by the student's committee and focuses on the student's research field or (2) passing an anthropology course in quantitative methods or another course in quantitative methods approved by the student's committee.

For further information, consult the graduate program adviser. See also the Department of Anthropology's student brochure.

Anthropology Courses

100 Non-Western Cultures and the Western Tradition (3) An examination of the changing views of man, nature and culture in Western civilization as related to the impact of non-Western influences, including the use and interpretation of data on non-Western peoples and cultures.

101 Introduction to Biological Anthropology (3)

Humans as biological organisms and in evolutionary perspective. Concepts, methods, findings and issues in the study of the order primates, including the relationships between fossil monkeys, apes and humans, and the significance of genetic diversity between modern populations. (CAN ANTH 2)

102 Introduction to Cultural Anthropology (3)

The nature of culture and its significance. Uniformities and variations in human cultures. Cultural analyses of major institutional forms such as the family, economy, government, religion and art with an emphasis on preliterate peoples. Central problems of cultural comparison and interpretation. (CAN ANTH 4)

103 Introduction to Archaeology (3)

Relationship of archaeology, culture history and culture process, field methods and analysis of archaeological data; the uses and abuses of archaeology. World culture history from Pleistocene beginnings to the threshold of civilization. (CAN ANTH 6)

104 Traditional Cultures of the World (3)

A comparative, worldwide survey of traditional, selected and well-studied ways of life using ethnographic writings, novels and films. Examines representative bands, tribes, chiefdoms, primitive states and folk societies.

300 Language and Culture (3)

Prerequisite: Anthropology 102 or consent of instructor. Language as a factor in culture. Trends in the study of language and culture.

305 Anthropology of Religion (3)

Prerequisite: Anthropology 102 or consent of instructor. Beliefs and practices in the full human variation of religious phenomena, with an emphasis on primitive religions. The forms, functions, structures, symbolism, and history and evolution of religious systems.

306 Comparative Aesthetics and Symbolism (3)

The metaphysical and mystical systems underlying the "grammars" of the art, myths, and rituals of various nonliterate and literate peoples and their development into creative experiences.

321 The American Indian (3)

Prerequisite: Anthropology 102 or consent of instructor. North American Indians north of Mexico; origin, languages, culture areas, cultural history; the impact of European contacts.

324A The Ancient Maya (3)

The archaeology and ethnohistory of the Maya area of Southern Mesoamerica. The problems of initial settlement of the area and the "rise" and dynamics of ancient Maya civilization.

324B The Aztecs and Their Predecessors (3)

Archaeological survey of principal Mesoamerica pre-Columbian cultures north and west of Maya area. The Aztecs and their predecessors, religion, art, architecture, intellectual achievements and the Olmec heritage.

325 Peoples of South America (3)

Prerequisite: Anthropology 102 or consent of instructor. Central and South America. Representative cultural areas before and after contacts with Western countries.

326 Archaeology of South America (3)

Prerequisite: Anthropology 102 or consent of instructor. Archaeological and ethnohistorical survey of the culture areas and ecological zones of South America, lower Central America and the West Indies, including Inca civilization and its origin, possible trans-oceanic contact, religion, medicine and technology.

327 Origins of Civilizations (3)

The development of civilization in both the Old and New Worlds in primary centers such as Mesopotamia, Egypt, the Indus Valley, China, Mesoamerica and Peru, and secondary centers such as the Aegean and Europe.

328 Peoples of Africa (3)

Prerequisite: Anthropology 102 or consent of instructor. A cultural survey of Africa. Description of selected cultures and aspects of culture before and after contact with non-Africans.

340 Peoples of Asia (3)

Prerequisite: Anthropology 102 or consent of instructor. A survey of Asian civilizations and cultural traditions, emphasizing the study of the personality configurations in different culture areas, the analysis of the structure of Asian civilizations, and an examination of the peasant, tribal and ethnic groups of Asia.

345 Peoples of the Middle East and North Africa (3)

Prerequisite: Anthropology 102 or consent of instructor. Interrelationship between culture, economy, political structure and belief system of selected cultures in the Middle East and North Africa.

346 Archaeology of the Holy Land (3)

Culture history of ancient Palestine from the Paleolithic to historic times. Changes in settlement patterns, resource base and sociopolitical organization.

347 Peoples of the Pacific (3)

Prerequisite: Anthropology 102 or consent of instructor. The indigenous peoples and cultures of the Pacific Islands, including Tahiti, Hawaii and Australia. The forces and processes contributing to social change in island communities and current problems being faced by them.

352 Peoples of Ancient Europe (3)

The cultural and social institutions of the peoples of pre-Christian Europe. The Greek, Italic, Germanic and Celtic peoples. Readings from original ancient writers.

360 Contemporary American Culture (3)

Prerequisite: Anthropology 102 or consent of instructor. Application of anthropological methods, categories of analysis, and types of interpretation to American culture. Survey and critique of selected community studies and other kinds of relevant research.

370 Anthropology of Non-Western Films (3)

Prerequisites: Anthropology 100, 102, 104, or consent of instructor. Comparative analytical study of commercial and non-commercial films and videos made by non-western people. Films and videos considered as cultural artifacts that are particularly revealing of the ways people conceive of themselves and their cultures.

401 Ethnographic Field Methods (3)

Prerequisites: Anthropology 102 and six additional units of anthropology or consent of instructor. Anthropological field research by students on various problems using participant observation techniques.

402 Museum Science (3)

Methods, principles and techniques used in natural history, and small scientific and historical museums. Subjects covered include scope of exhibit and research collections, care and repair of specimens, acquisitions, storage and preparation of presentations in anthropological, historical, biological and paleontological

403 Archaeological Fieldwork (3)

Prerequisites: Anthropology 102 or 103 and consent of instructor. Excavation of a local archaeological site. Archaeological mapping, photography and recording. Laboratory methods of cataloging, preservation, description and interpretation of archaeological materials. Saturday field sessions. May be repeated once for credit as an elective. (1 hour lecture, 6 hours laboratory)

het system of selected cultures in the Middle East and Morth 404 Analytical Methods in Archaeology (3)

Prerequisites: Anthropology 103 and 403. The employment of physical data collecting techniques (e.g., photographic, palaeomagnetic) in the field and the analysis of artifact collections and data from previous field operations in the laboratory. May be repeated once for credit as an elective. (1 hour lecture, 6 hours laboratory)

405 Human Osteology (3)
Prerequisite: consent of instructor. Techniques in the basic identification of human skeletal remains. Aging, sexing, racing and stature reconstruction. For those interested in archaeology, hominid evolution and/or forensic science. (2 hours lecture, 3 hours laboratory)

347 Peoples of the Backle (3)

406 Descriptive Linguistics (3) (Same as Linguistics 406) (Same as Linguistics 406)

407 Anthropological Video Production (3)

Prerequisites: Six upper-division units of anthropology or consent of instructor. Planning, shooting, and editing videotapes relating to all sub-disciplines of anthropology. (1 hour lecture; 6 hours laboratory activities, demonstrations, and field work).

409 Applied Anthropology (3) (Formerly 309)

Prerequisites: Anthropology 102 or consent of instructor. The uses of anthropological skills and sensitivities in approaching contemporary human problems. Cultural change, organizational development, program planning and evaluation, the consultant's role, and professional ethics.

411 Culture and Communication (3)

(Formerly 307) (3) (5) (5) (Formerly 307) Prerequisite: Anthropology 300 or consent of instructor. How culture meaning and manipulation are constituted in both traditional and modern cultures through language, mythology, ritual, architecture, religion, and other communication systems.

412 Culture Change (3)

(Formerly 308)

Prerequisite: Anthropology 102 or consent of instructor. Interrelations between cultural, social and psychological processes in the dynamics of culture growth and change. Impact of western technology on tribal and peasant societies. Anthropological contributions to the planning of directed sociocultural change in selected areas. To mesons to 201 yearly and estuaperent

413 Culture & Personality: Psychological Anthropology (3) (Formerly 302)

Prerequisites: Anthropology 102 or consent of instructor. The relationship between the individual and the culture. Child training in non-western cultures. Survey of concepts, studies, and research techniques. The day and assenting of standard to

tures, symbolism, and history and evolution of religious systems. 414 Economic Anthropology (3) 306 Comparative Aesthetics and Symbolism (606 ylramrof)

Prerequisite: Anthropology 102 or consent of instructor. The ethnology and ethnography of economic life, principally in nonwestern societies; the operation of systems of production and

distribution within diverse cultural contexts.

415 Culture and Nutrition (3) Control of Culture and Nutrition (3)

Prerequisites: Anthropology 101 or 102 or consent of instructor. Interrelationships between human nutrition, basic food resources, individual development and socio-cultural organization; includes assessment of student's nutritional status, beliefs, and practices relative to other cultures. Jonate bas vooloesands en T

32 b The American Indian (3) barron come

416 Anthropological Linguistics (3) Comments but "salt" salt

Nature and functions of language; language structure and change; classification of languages; use of linguistic evidence in anthropology. (Same as Linguistics 416)

417 Life Quests (3)

Contemporary ways to wisdom and humanness in cross-cultural and historical perspectives. New and comparative approaches to understanding the life cycle, development and fulfillment of individual personalities.

418 Mental Illness in Cross-Cultural Perspective (3)

Problems in the cross-cultural definition and treatment of mental illness. Cross-cultural perspectives on symptomatology and etiology, culture bound disorders, the folk healer, and the relationship between cultural change and mental disorders.

419 Shamanism in Cross-Cultural Perspective (3)

Prerequisite: Anthropology 102 or consent of instructor. Shamanism, the earliest recorded religious systems of hunter/gatherers will be examined in terms of religious, political and artistic expression in historical and traditional third world societies. Implications for understanding charismatic resurgences in industrial societies will also be evaluated. (Same as Religious Studies 419)

432 Woman in Cross-Cultural Perspective (3)

Prerequisite: Anthropology 102 or consent of instructor. The influence of biological determinants as they are shaped by cultural beliefs, values, expectations and socially defined roles for women. The changing role of women in industrial society.

440 Human Evolution (3)

Prerequisite: Anthropology 101. Advanced primate evolution; the origin of Homo sapiens as evidenced in the fossil record and through biochemical and molecular studies. Evolutionary theory and problems in human evolution. (2 hours lecture, 3 hours laboratory)

441 Human Variation (3)

Prerequisite: Anthropology 101. The processes underlying and the theories for the existence of the present variation between and within human populations. The genetics of human populations and the significance of racial classifications. (2 hours lecture, 3 hours laboratory)

442 Medical Anthropology (3)

Human health and disease and their relationship to cultural practices, beliefs and environmental factors; histories of various diseases as factors of cultural change; health care delivery systems.

450 Culture and Education (3)

Prerequisite: Anthropology 102 or consent of instructor. The transmission of values, implicit cultural assumptions, and the patterning of education in cross-cultural perspective. American culture and development problems.

460 Public Archaeology in California (3) (Formerly 349)

An archaeological survey of California, emphasizing the examination of recent scientific excavations. Analysis of new archaeological methods, current research specializations, responsibilities of the modern archaeologist, and review of legislation affecting archaeology.

470 Survey of Anthropological Films (3)

Prerequisites: Anthropology 100, 101, 102, 103, 104, or consent of instructor. Survey and analysis of the uses of film and video in anthropological research, teaching, theory, methodology. Films are studied not only for their anthropological content, but also as artifacts of western culture which reveal significant aspects of that culture.

475 Science in Archaeology (3)

(Formerly 375)

Prerequisite: Completion of physical science and biological science categories of general education. Applications of the techniques of the natural sciences to archaeological data for dating and analysis of artifactual and biological materials in order to reconstruct past lifeways.

476 Archaeological Investigations (3) A horgological acre (Formerly 390)

Prerequisites: Anthropology 102 or 103 or consent of instructor. Variable topic archaeological fieldwork and/or touring course. Sites and museums will be visited. May be repeated for credit, with different topics. (1 hour lecture, 6 hours laboratory)

480 History of Anthropology (3)

Prerequisite: Anthropology 102 or consent of instructor. The principal contributions of anthropologists 1850-1950; evolutionary, diffusionist, historical, particularist, configurationalist, and culture and personality approaches in anthropology.

481 Contemporary Anthropology (3)

Prerequisite: Anthropology 102 or consent of instructor. Anthropologists from 1950 to the present; neoevolutionist; sociological, structuralist, psychological and symbolic approaches.

490 Undergraduate Seminar in Anthropology (3)

Prerequisite: consent of instructor. Topics in anthropology. May be repeated for credit.

491 Internship in Anthropology (3)

Prerequisites: 18 upper division units in anthropology and/or related fields. Career opportunities. On-the-job training under faculty supervision in museum, industry or governmental service. May be repeated for credit for a total of six units.

498 Museum Practicum (1-3)

Prerequisites: At least 15 units of anthropology and consent of instructor. Practical experience in Museum operations, using the facilities of the Anthropology Museum. Topics covered include exhibit preparation, membership and funding operations, catalogue preparation and outreach activities. May be repeated for a maximum of 3 units.

499 Independent Study (1-3)

Prerequisites: at least 15 units of anthropology and consent of adviser. Individual research project involving either library or fieldwork. Conferences with the adviser as necessary. Results in one or more papers. May be repeated for credit.

501 Seminar: Methodology of Anthropological Research (3)

Prerequisites: completion of undergraduate major in anthropology and/or graduate standing or consent of instructor. The contemporary methodological spectrum in anthropology and new trends in research planning and implementation.

502 Contemporary Theory in Anthropology (3)

Prerequisite: Anthropology 480 or consent of instructor. The basic assumptions and theoretical positions of leading contemporary anthropologists.

504 Seminar: Selected Topics in Anthropology (3)

Prerequisites: completion of undergraduate major in anthropology and/or graduate standing or consent of instructor. The topic chosen and a general outline of the seminar is circulated prior to registration. May be repeated.

505 Phonological Analysis (3)

(Same as Linguistics 505)

507 Grammatical Analysis (3) (Same as Linguistics 507)

508 Theories of Syntax (3) (Same as Linguistics 508) (E) voologondin A lo vrom H 084

592 Fields Methods in Linguistics (3) (Same as Linguistics 592)

597 Project (3,6)

Prerequisites: graduate standing and consent of instructor. The completion of a project derived from original field or laboratory research, and/or on library study. May be repeated for credit to a maximum of 6 units.

490 Undergraduate Semuse in Ambregaliese (3)

499 Independent South (1-3), will be a formation 774

field work. So of general with the advisor or necessary. Results in

503 General borney Theory in Antherpology (3) managels selven Prerequisité: Authropology 430 or zonséaunificiastruites. The

411 Culture and Communication (3) steigologenthns year

504 Seminar: Selected Torics in Anthropology (30) ybranch Trerequestes, completion of undergraduals major in anthropologic

598 Thesis (3,6)

Prerequisites: graduate standing and consent of instructor. The writing of a thesis based on original field or laboratory research, and/or on library study, and its analysis and evaluation. May be repeated for credit to a maximum of 6 units.

599 Independent Graduate Research (1-3)

Prerequisite: consent of adviser. Individual research involving fieldwork, laboratory, or library study, and conferences with a project adviser as necessary, and resulting in one or more papers. May be repeated for credit.

442 Medical Authrogology (2) Sur snovib outries not address

transmission of values, implicit cultural assurantions, and the

culture and development groblems, all lestories corined. All

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Required lower-division courses (6 units) (see No stant) 400

Department of Chicano Studies

Department Chair: Isaac Cardenas Department Office: Education Classroom 475

Programs Offered Bachelor of Arts in Ethnic Studies Option in Chicano Studies Minor in Chicano Studies

Faculty

Isaac Cardenas, Dagoberto Fuentes, Adolfo Ortega, Joseph Platt

Advisers

Consult the department chair.

INTRODUCTION

Chicano studies examines the culture, language, education, history, politics, and socioeconomics of Americans of Mexican heritage. The major in Chicano studies emphasizes preparation for: (1) those interested in teaching either at the elementary and secondary level; (2) specialists in bilingual cross-cultural education; (3) majors in other academic fields such as liberal studies, history, sociology, psychology, literature, or anthropology, who wish to include additional scope to their field; (4) students pursuing advanced degrees (M.A. and Ph.D.); and (5) those entering a variety of occupations in urban affairs, government, social work, school administration, counseling, business, criminology, law, foreign service and other related areas.

The Chicano studies option consists of 36 units, of which a minimum of 24 units must be upper division. Students must consult with their advisers for an approved study plan. In addition, Chicano studies offers a minor consisting of 24 units.

CREDENTIAL INFORMATION

The Department of Chicano Studies offers course work leading to a CSUF Single Subject Waiver Program in Social Science. See the listing of required courses under the Department of Secondary Education.

The department also offers or participates in the CSUF Generic Multiple Subjects Waiver. Information on requirements is available from departmental advisers and from the Office of Admission to Teacher Education.

All students interested in exploring careers in teaching at the elementary or secondary school levels should contact the Admission to Teacher Education Office and their academic adviser for assistance in planning their academic and professional preparation.

BACHELOR OF ARTS IN ETHNIC STUDIES OPTION IN CHICANO STUDIES

A total of 36 units from the following courses are required:

Lower Division (6 units minimum)

Chicano 106 Intro to Chicano Studies (3)

Chicano 220 Mexican Heritage (3)

Upper Division (24 units minimum)

Required Courses (9 units)

(to be selected from the following courses)

Chicano 430 Evolution of Mexican Literature (3)

Chicano 431 The Chicano Child (3)

Chicano 440 Mexican Intellectual Thought (3)

Chicano 445 History of the Chicano (3)

Chicano 453 Mexico Since 1906 (3)

Upper Division Writing Requirement (3 units)

English 301 Advanced College Writing (3) and the second

Electives (12 units minimum)

Chicano 102 Communication Skills (3)

Chicano 190 Survey of American History with Emphasis on Ethnic Minorities (3) as salars occasion at rolan ad T. eggs.

Chicano 302 Ancient Mexican Culture (3)

Chicano 304 Music of Mexico (3) (same as Music 304)

Chicano 305 The Chicano Family (3) 100 m 100 mm (6) 100 m

Chicano 306 Barrio Studies (3) And and Angeloisos Atotald

Chicano 315 Chicano/Latino Theater (3)

Chicano 316 The Chicano Music Experience (3)

Chicano 336 Main Trends in Spanish-American

Literature (3) mand gaulsagues anottemanimbe loods alrow

Chicano 337 Contemporary Chicano Literature (3)

Chicano 360 Chicanos and the Law (3)

Chicano 403 Cultural Differences in Mexico and the Minimum of 24 units must be upper division (6) reswitting

Chicano 406 La Chicana (3)

Chicano 430 Evolution of Mexican Literature (3)

Chicano 431 The Chicano Child (3)

Chicano 432 The Chicano Adolescent (3)

Chicano 433 Mexican Literature Since 1940 (3)

Chicano 440 Mexican Intellectual Thought (3)

Chicano 445 History of the Chicano (3)

Chicano 450 The Chicano and Contemporary

Issues (3)

Chicano 453 Mexico Since 1906 (3)

Chicano 460 The Chicano and Politics (3)

Chicano 480 The Immigrant and the Chicano (3)

Chicano 499 Independent Study (1-3) good and part of good

MINOR IN CHICANO STUDIES, at hostesters attrobate if A

The minor in Chicano Studies consists of 24 units in the follow-Teacher Education Office and their academic adviser for:seas ani

Required lower-division courses (6 units)

Chicano 106 Intro to Chicano Studies (3)

Chicano 220 Mexican Heritage (3)

Required upper-division courses (9 units)

(to be selected from the following)

Chicano 430 The Evolution of Mexican Literature (3)

Chicano 431 The Chicano Child (3)

Chicano 440 Mexican Intellectual Thought (3)

Chicano 445 History of the Chicano (3)

Chicano 453 Mexico Since 1906 (3)

Approved electives

Nine units of approved course work in lower- and upper-division classes that are selected by the adviser.

GRADUATE STUDY

Chicano Studies offers courses for advanced study in the following graduate degree programs:

Master of Arts in Social Sciences

Master of Science in Education: Bilingual/Bicultural Concentration

Master of Arts in Spanish: Bilingual Studies Concentration

Chicano Studies Courses

102 Communication Skills (3)

The basic communication skills including oral and written expression. A unit on the mechanics of writing and reporting on a term paper.

106 Introduction to Chicano Studies (3)

The role of the Chicano in the United States. The Chicano's cultural values, social organization, urbanization patterns, and the problems in the area of education, politics and legislation.

190 Survey of American History with

Emphasis on Ethnic Minorities (3)

(Same as History 190 and Afro-Ethnic Studies 190. This course fulfills Title V, Statutory Requirements.)

220 Mexican Heritage (3)

The basic characteristics of the Mexican, especially the Chicano society and culture. From 1519 to the present. Emphasis on the arts, literature and history of Mexico and the Chicano in the United States.

302 Ancient Mexican Culture (3)

An historical and cultural survey of the principal pre-Columbian cultures of Mexico and their significance for Mexican society.

304 Music of Mexico

(Same as Music 304)

305 The Chicano Family (3)

The Chicano family development as an American social institution. Historical and cross-cultural perspectives. The socio-, and psychodynamics of the Chicano family.

306 Barrio Studies (3)

Prerequisite: Chicano Studies 220 or consent of instructor. The major characteristics of the barrio. Supervised fieldwork in the barrio is required. Analysis of the barrio or agency will be made after fieldwork is completed. (2 hours lecture, 3 hours fieldwork)

315 Chicano/Latino Theater (3)

Prerequisites: Either upper-division standing, consent of instructor, or Theatre 100. Analysis of contemporary Chicano/Latino theater in relation to its historical evolution. Emphasis on plays, playwrights and theater groups expressing the Chicano/Latino experience. Extensive play reading. (Same as Theater 315).

316 The Chicano Music Experience (3)

Mexican folk and popular music and its relation to the culture which produced it. The pre-Cortesian period to the present in Mexico and in the Southwestern United States.

336 Main Trends in Spanish-American Literature (3)

The main currents of Spanish American literature emphasizing contemporary works. The relation between the artistic expression and the ideological values of the period.

337 Contemporary Chicano Literature (3)

Prerequisite: Chicano Studies 106, or 220, or consent of instructor. The modern Chicano writers in the United States: Allurista, Corky Gonzales, Octavio Romano, el treatro campesino and the major Chicano magazines and newspapers.

360 Chicanos and the Law (3)

The relationship between Chicanos and the legal and judicial system, including the administration of justice, Chicano-police relations, and Chicanos and the prison system. Guest speakers will be a regular feature.

403 Cultural Differences in Mexico & the Southwest (3)

The cultural conflicts in Mexico as seen by the contemporary thinkers of Mexico and the United States. Urban and rural problems.

406 La Chicana (3)

The cultural influences that the family, religion, economic status and community play upon the lifestyles, the values and the roles held by Chicanas.

430 The Evolution of Mexican Literature (3)

Survey and analysis of the Nahautl, Mexican and Chicano literature from the pre-Columbian period to the present.

431 The Chicano Child (3)

The Chicano child from preschool through grade six. Motor, physical, social, intellectual and emotional growth and development and their effect on school adjustment and achievement. Observation of preschool and grade school children.

432 The Chicano Adolescent (3)

The Chicano adolescents' social, intellectual and emotional growth and development. The bicultural pressures from the barrio, family structure, school and achievement values.

433 Mexican Literature Since 1940 (3)

The literature of Mexico since 1940: Carlos Fuentes, Luis Spota, Rodolfo Usigli, Xavier Villarrutia, Juan Jose Arreola, Octavio Paz, Roberto Blanco Moheno and Luis G. Basurto.

440 Mexican Intellectual Thought (3)

Prerequisite: reading knowledge of Spanish and Chicano Studies 302 recommended. The emergence of the Chicano movement dealing with political, economic and sociological facets. The writings of the Nahautl, Spanish, Spanish-American, Chicano and contemporary writers.

445 History of the Chicano (3)

History of the Chicano from the pre-Columbian period to the present. The Chicanos' changing role in the United States, their cultural identity crisis and their achievements.

450 The Chicano and Contemporary Issues (3)

The socioeconomic and political problems confronting the Chicano including proposed solutions. The effect that social institutions have had on the Chicano community.

453 Mexico Since 1906 (3)

Prerequisite: upper division class standing. The Mexican Revolution of 1910 stressing the political, economic and social aspects as well as its contributions in the fields of art, literature and social reforms. A series of constable upon to excite a box selections

460 The Chicano and Politics (3)

Theory of urban politics and evaluation of issues that affect the Chicanos and American society. Evaluations and surveys will be made on political organizations in the Hispanic-surnamed communities. (Same as Political Science 460)

480 The Immigrant and the Chicano (3)

Mexican immigration to the United States and its social, economic and political impacts on the Chicano and non-Chicano communities and other immigrant groups.

499 Independent Study (1-3)

Prerequisites: senior level and approval by the department chair and instructor(s) in charge of directing the study. An opportunity to do independent study, under the guidance of the faculty, of a subject of special interest to the student.

599 Independent Graduate Research (1-3)

Prerequisites: consent of instructor and classified status. Individual research for Chicano studies components in Master of Arts in Bilingual Studies (Spanish), Master of Science in Bilingual Education (Education) and related programs. Maximum of 3 hours credit.

Department of Criminal Justice

Department Chair: James R. Farris

Department Office: Education Classroom 622

Programs Offered

Bachelor of Arts in Criminal Justice Minor in Criminal Justice

Faculty

W. Garrett Capune, George M. Dery, III, James Farris, Ruth-Ellen Grimes, James Lasley, Jill Rosenbaum

All full-time faculty with the department are advisers; see Criminal Justice bulletin board for names, office hours and room numbers.

INTRODUCTION OF THE PROPERTY O

Criminal justice is the study of the causes, consequences and control of crime. Like other new and developing fields, criminal justice is difficult to define as it draws from a number of different disciplines . . . psychology, public administration, philosophy, 453 Mexico Since 1906(13) entre and the Proceedings of the Proceedings sociology and law.

The program leading to the Bachelor of Arts in Criminal Justice is designed to acquaint preservice and inservice students with the principles and practices of criminal justice in America. Although the department's curriculum allows for the development of depth in one of the subject's substantive subsystems (i.e., law enforcement, courts or corrections), the overriding objective is to familiarize students with activities in all the above areas.

The department is both academic and professional in that it is an interdisciplinary attempt to relate intellectual issues and practitioner perspectives to the challenge of crime in a free society. In this regard, the department provides preparation for employment with a related agency and/or further study, (e.g., law school).

PRIZES IN CRIMINAL JUSTICE

Two graduating seniors are acknowledged each year with the Good Student Award, one for academics and another for activities. All students completing the major with a 3.5 GPA are granted membership in the Baker Street Irregulars, the Criminal Justice Honor Students Society.

BACHELOR OF ARTS IN CRIMINAL JUSTICE

Every student must complete the core courses (15 units) and a minimum of 12 units from the elective curriculum. In addition, each student is required to complete 12 units in a correlated curriculum.



406 La Chicana (3) this yrotally assissas to yavruz 0.01

For current information regarding the criminal justice program and its courses, consult the department's bulletin board in the hallway near EC-622.

Core Curriculum (15 units)

Crim Just 300 Intro to Criminal Justice (3)

Crim Just 310A Criminal Law: Substantive (3)

Crim Just 320 Criminal Justice Administration (3)

Crim Just 330 Crime and Delinquency (3)

Crim Just 340 Criminal Justice Research

Methodology (3)

Elective Curriculum (12 units)

Crim Just 310B Criminal Law: Procedural (3)

Crim Just 325 Contemp Military Justice System (3)

Crim Just 350 Principles and Concepts of Investigation and Reporting (3)

Crim Just 415 The Enforcement Function (3)

Crim Just 425 Juvenile Justice Administration (3)

Crim Just 430 Women and Crime (3)

Crim Just 435 Adjudication and the Judiciary (3)

Crim Just 440 Minorities and the Criminal Justice

System (3)

Crim Just 445 Corrections (3)

Organized Crime and Intelligence Analysis (3) Crim Just 450

Crim Just 455 Gangs and the Criminal Justice System (3)

Crim Just 460 Private Police: Legal Issues (3)

Crim Just 475 Topics in Administration of Justice:

A Seminar (3)

Crim Just 480 Courtroom Evidence (3)

Crim lust 485 Search, Seizure & Interrogation I (3)

Crim Just 486 Search, Seizure & Interrogation II (3)

Crim Just 495 Internships (3)

Crim Just 499 Independent Study (3)

Correlated Curriculum (12 units)

Courses in the related fields shall be selected by the student in consultation with an adviser. The purpose of this requirement is to allow for an awareness of the disciplines contributing to the creation of "criminal justice" as a separate subject. Upper division courses in such fields as philosophy, political science, psychology and sociology may be considered in this regard. For a list of courses that can count in this regard, see the Criminal Justice halletin board. Jeen see that to 20 hours per week brood nitslud

Writing Requirement (3 units)

One of the following courses:

Crim lust 350 Principles and Concepts of Investigation and Reporting (3) has lamented to expect at least in assistance and

English 301 Advanced College Writing (3)

English 365 Legal Writing (3) ing in one or more papers. May be repeated for credit.

For further information on these alternatives, please see the Criminal Justice bulletin board.

MINOR IN CRIMINAL JUSTICE

The Minor in Criminal Justice consists of a total of 18 units including three required and three elective courses to be chosen from the criminal justice curriculum. The required courses are:

Crim Just 300 Intro to Criminal Justice (3)

Crim Just 310A Criminal Law: Substantive (3)

Crim Just 330 Crime and Delinquency (3)

Criminal Justice Courses

300 Introduction to Criminal Justice (3)

A study of the underlying ideological issues confronting America's system of criminal justice, with an emphasis on key concepts in conflict (law and order, rehabilitation vs. retribution, etc.)

310A Criminal Law: Substantive (3)

The general doctrines of criminal liability in the United States and the classification of crimes as against persons, property and the public welfare. The concept of governmental sanction of the conduct of the individual.

310B Criminal Law: Procedural (3)

Legal problems associated with the investigation of crime, the acquisition of evidence, the commencement of a criminal proceeding, the prosecution and defense of charges, sentencing and appeal. The development of existing procedures and examination of current efforts for reform.

320 Criminal Justice Administration (3)

Justice administration as a "single system;" modern management materials as applied to the involved institutions; line, staff and auxiliary activities both in principle and practice, and the associated administrative theories. Manifestate beatlanoise beatlanoise beatlanoise

325 Contemporary Military Justice System (3)

Evolution of the military justice system. Comparisons to the civilian legal system. Practical application of concepts and requirements, including investigations, searches, charges, judicial and non-judicial punishments. (Same as Military Science 325)

330 Crime and Delinquency (3)

The nature and extent of criminality; traditional and topical theories regarding etiology; research methods, sociological and psychological theories.

340 Criminal Justice Research Methodology (3)

Elementary statistics including descriptives, measurements and tests; data collection methods for effort evaluation and program prediction; systems analysis techniques.

350 Principles and Concepts of Investigation and Reporting (3)

Prerequisite: Crim Just 300 or consent of instructor. Principles of investigative activity practiced by police, courts and correctional subsystems. Reporting procedures and requirements. Meets classroom portion of upper-division writing requirement for Criminal Justice majors, or as an elective in the concentration curriculum.

415 The Enforcement Function (3)

Prerequisite: Crim Just 300 or consent of instructor. The historical and philosophical development of the enforcement function at federal, state and local levels; community controls, political pressures and legal limitations pertaining to law enforcement agencies at each level of government; police policies and problems vis-a-vis the administration of justice as a system.

425 Juvenile Justice Administration (3)

Prerequisite: Crim Just 300 or consent of instructor. Definitions of "delinquency" and the related responses of the interested institutions (police, courts and correction); the juvenile court (past and present), and prevention and correction programs (practicing and proposed).

430 Women and Crime (3)

Prerequisite: Crim Just 300 or Philosophy 302. An examination of women as criminals and victims, gender differences in criminal behavior and the role of women as professionals in the criminal justice system.

435 Adjudication and the Judiciary (3)

Prerequisite: Crim Just 300 or consent of instructor. The associated sociolegal doctrine and institutions at the federal, state and local levels; political controls and legal limitations pertaining to each; the nature of the judicial process; the participants' roles and relationships to the administration of justice as a system.

440 Minorities and the Criminal Justice System (3)

Prerequisites: Crim Just 300 or consent of instructor. An introduction to the issues surrounding the charges of overt and indirect institutionalized racism in the criminal justice system. An overview of patterns of criminal behavior among minority groups in the U.S. will be discussed. The world was a supplied to the U.S. will be discussed.

445 Corrections (3)

Prerequisite: Crim Just 300 or consent of instructor. An overview of the origins, processes, organization, and contemporary trends of corrections in America. Course will target management, control, and treatment of adult and juvenile offenders in both institutions and community programs.

450 Organized Crime and Intelligence Analysis (3)

Prerequisite: Crim Just 300. History and development of organized crime. Current criminological strategies of control of organizational crime. Systems theories and other analytical techniques of police intelligence.

455 Gangs and the Criminal Justice System (3)

Prerequisites: Crim Just 300 or consent of instructor. Causal factors of and legal solutions to gang related crime in the United States are examined. Relevance of sociological, psychological, economic, and educational deviance theories to justice intervention strategies is emphasized.

460 Private Police: Legal Issues (3)

Prerequisite: Crim Just 300 or consent of instructor. An analysis of the legalities associated with private policing, such as the application of exclusionary rules in criminal prosecutions and the issue of adequacy as it relates to liability.

475 Topics in Administration of Justice: A Seminar (3)

Prerequisite: Crim Just 300 or consent of instructor. Current social, legal and practical problems confronting the police, the courts and corrections. A "variable topic" class with specific subjects to be announced each semester.

480 Courtroom Evidence (3)

Prerequisite: Crim Just 300 or consent of instructor. The rules of evidence in the context of a criminal trial in a California court. The rules, their application and their rationale. Lecture, discussion and simulated courtroom situations.

485 Search, Seizure and Interrogation I (3)

Prerequisite: Crim Just 300 or consent of instructor. An analysis of the laws that apply in common street search-and-seizure and interrogation situations in California; how they have evolved, and what developments are anticipated.

486 Search, Seizure and Interrogation II (3)

Prerequisites: Crim Just 300 or consent of instructor. An analysis of the laws that apply in some of the less common search-andseizure and interrogation situations, such as those involving the to allow for an awareness of .lslicial of salary and a subject .Upper division of "criminal justice" as a separate subject. Upper division

495 Internships (3) aids in barebiseou ed yam ygololoos bas

Prerequisites: Crim Just 300 and consent of instructor. The criminal justice professions; eight to 20 hours per week as a supervised intern in a public agency or related organization. In addition to the job experience, interns meet in a weekly three-hour seminar.

499 Independent Study (1-3) hour estagonis T Oct real miso

Prerequisites: at least 12 hours of criminal justice and consent of adviser. Student selects an individual research project, either library or field. Conferences with adviser as necessary, culminating in one or more papers. May be repeated for credit.

Department of English and Comparative Literature



2. Satisfactory completion of a unitren examination in an adviser approved foreign language, or satisfactory completion of an

English 312 Manada study bayongga at to managolay Plant St. Development of an appropriate to the state of the

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Reading Competence in a Foreign Language

This requirement can be mee by examination or hy successful completion of an adviser-approved 400-level course offered by the Department of Foreign Languages and Literatures, provided it is not taught in translation; Information on the examination is

> Department Chair: Joseph Sawicki Vice Chair: Joanne Lewis Department Office: Humanities 715F

> Programs Offered to have any lasmant to unibacterabase anatam Bachelor of Arts in Comparative Literature Master of Arts in Comparative Literature Bachelor of Arts in English Minor in English may be combined with preparational mission Master of Arts in English

Faculty design as deal teamer solution of make only and

Don Austin, Rosemary Boston, John Brugaletta, Sheryl Fontaine, George Friend, Stephen Garber, Joanne Gass, Joseph Gilde, Joan Greenwood, Jean Hall, Mary Hayden, Jane Hipolito, Robert Hodges, Wayne Huebner, Joanne Jasin, Helen Jaskoski, Susan Jacobsen, Thomas Klammer, William Koon, Mohsen Mirshafiei, Helen Mugambi, Keith Neilson, Paul Obler, Urania Petalas, June Pollak, Sally Romotsky, Joseph Sawicki, Muriel Schulz, John Schwarz, Donald Sears, Joanne Sears, Howard Seller, George Spangler, Kay Stanton, Atara Stein, Mary Kay Tirrell, Martha Vogeler, John White, Helen Yanko, Heping Zhao

English and compared to literature provide a foundation

the English Departments and Modern Estational Correction

Undergraduate: All full-time faculty members serve as advisers. Graduate: Howard Seller Teaching Credential: John White

An annual conference with a faculty adviser is required. New students must confer with an adviser in each of the first two Required Courses (English 303 and 18 units in course

INTRODUCTION STUTESTALL STREET, Comparative Literature, and the state of the state

The discipline of English includes the study of British and American literature, the various kinds of writing, and the history, structure and dialects of the English language.

The major in English is a flexible program emphasizing skill in writing, familiarity with and appreciation of the literatures of England and America, and knowledge of the nature and development of the English language. Comparative Literature, English, French, German, Italian, RusComparative literature is the study of world literature without specific regard for national or linguistic boundaries. It is comparative in that it deals with the relationships among different literatures. The comparatist studies not only the international literary masterpieces and historical periods of world literature, but also examines critical theories from a cross-cultural perspective. The major in comparative literature promotes the understanding of world literatures and cultures in various historical periods, including the present, for students with a special concern for the relationships among the languages and literatures of various civilizations. Comparative literature courses are conducted in English, and required reading is available in English.

The study of literature and language helps students to achieve a mature understanding of themselves and the world and to learn to read critically and analytically, write clearly and persuasively, and reason soundly. For these reasons such study is ideal preparation for professional training in fields such as law, medicine, and religion, or for responsible positions in business and industry. The major in English may be combined with preparation for elementary and secondary school teaching. In addition, the majors in English and comparative literature provide a foundation for students who intend to work for advanced degrees in preparation for college teaching.

Credential Information

The English Department offers course work leading to a waiver in English for the Ryan Single Subject (secondary) Teaching Credential. Students seeking a Multiple Subjects (elementary) Teaching Credential may choose to major in English and fulfill credential requirements under the Generic Multiple Subjects Waiver Program.

All students interested in majoring in English in preparation for teaching should contact the English Education Coordinator in the English Department.

BACHELOR OF ARTS IN COMPARATIVE LITERATURE

All students must complete a total of 42 units of upper-division courses. In selecting courses, students are urged to consult a faculty adviser.

Required Courses (English 300 and 18 units in comparative literature, including Comparative Literature 324, 325, and either 332 or 333).

British and American Literature (6 upper-division units listed under English)

Breadth Requirement (6 adviser-approved units in anthropology, history, art history, music history or philosophy)

Electives (9 upper-division units in literature courses listed under Comparative Literature, English, French, German, Italian, Russian, or Spanish or another adviser-approved foreign language)

Reading Competence in a Foreign Language

This requirement can be met by examination or by successful completion of an adviser-approved 400-level course offered by the Department of Foreign Languages and Literatures, provided it is not taught in translation. Information on the examination is available in the Department of English and Comparative Literature office.

MASTER OF ARTS IN COMPARATIVE LITERATURE

The master's degree program in comparative literature promotes the understanding of other literatures, peoples and cultures in various historical periods, including the present, provides background for more advanced degrees, prepares teachers of world literature in the high schools and community colleges and provides a liberal arts background for library studies.

Admission to Graduate Standing: Conditionally Classified

University requirements include a bachelor's degree from an accredited institution and a minimum GPA of 2.5 in the last 60 semester units attempted.

Graduate Standing: Classified

Classified standing requires:

 An undergraduate major in comparative literature, English or foreign language with a GPA of 3.0 or better in the major courses and a GPA of 2.5 in all other college and/or university work. If the student's degree is in another field, a total of 24 units of upper-division work in comparative literature, English or foreign language with a GPA of 3.0 will be required.

If the student lacks the prerequisite number of courses, they must be taken before beginning work in the master's degree program, with at least a 3.0 in such makeup course work. If the student's GPA in these probationary courses is 3.0 or better, classified standing may be granted. Courses taken to remove qualitative and quantitative deficiencies may not be applied to the M.A. program.

- Satisfactory completion of a written examination in an adviser-approved foreign language, or satisfactory completion of an upper-division course taught in an adviser-approved foreign language.
- 3. Development of an approved study plan.

Study Plan

A minimum of 30 units of course work must be completed with a minimum GPA of 3.0 to be distributed as follows:

1. A minimum of 18 units in 500-series courses: Courses at the 500 level in comparative literature or courses cross-listed in English (one adviser-approved 500-level course in English may help satisfy this requirement) 15 A course at the 500 level in a related area 3 2. Upper division courses (12 units): Adviser-approved courses in comparative literature 6 Adviser-approved courses in a related area 6 (At least 3 units of related course work must be in

foreign literature, read in the original

Tlanguage.) The star o notavib rangu balting in ainU

At the conclusion of all course work, the student will take a comprehensive examination for the master's degree. Each section of the four-part comprehensive examination must be passed before the degree will be awarded. Any section(s) failed may be repeated once only. Notice of intention to take the examination must be on file with the graduate secretary within six weeks of the first class of the semester.

Thesis Option

The candidate may elect to write a thesis. For information consult the graduate adviser.

For further information, consult the Department of English and Comparative Literature.

BACHELOR OF ARTS IN ENGLISH

All students must complete a total of 42 units in addition to English 101 or its equivalent. At least 30 units must be upperdivision courses. In selecting courses, students are urged to consult a faculty member of the Department of English and Comparative Literature.

Required Courses (9 units)

English 300 Analysis of Literary Forms (3)

English 301 Advanced College Writing (3) Shakespeare (3)

English 334

Survey Courses (at least 6 units)

English 311 Masters of British Literature to 1760 (3)

English 312 Masters of British Literature from 1760 (3)

English 321 American Literature to Whitman (3)

English 322 American Literature from Twain to the Moderns (3)

Comp Lit 324 World Literature to 1650 (3)

Comp Lit 325 World Literature from 1650 (3)

Period, Genre and Criticism Courses (at least 9 units, including at least 3 units from courses prior to 1800, i.e., 332, 335, 336, 337, 338, 340, 345, 423)

English 332 Medieval Literature (3)

Elizabethan and Jacobean Drama (3) English 335

English 336 Elizabethan Poetry and Prose (3)

17th-Century Poetry and Prose (3) English 337

English 338 The Drama of the Restoration and the 18th Century (3)

English 340 Restoration and 18th Century Poetry and

Prose (3)

English 343 The Romantic Movement in English

Literature (3)

Victorian Literature (3) English 344

The Development of the English Novel Through English 345 Jane Austen (3)

The Development of the 19th Century English English 346 Novel (3)

Early American Literature (3) English 423

Modern British and American Novels (3) English 462

Contemporary Novels in English (3) English 463

Modern British and American Drama (3) English 464

English 465 Contemporary Drama in English (3)

Modern British and American Poetry (3) English 466

Contemporary Poetry in English (3) English 467

Traditions of English Literary Criticism (3) English 491

Major Author Courses (at least 3 units)

English 333 Chaucer (3)

English 341 Milton (3)

Language Courses (at least 3 units)

English 303 Structure of Modern English (3)

The English Language in America (3) English 305

English 490 History of the English Language (3)

Electives (at least 12 units)

Chosen from English and comparative literature courses numbered 201 and above.

MINOR IN ENGLISH

Students must complete a total of 21 units, including 15 units as described below and six units of electives. In selecting courses, students seeking a minor in English should consult a faculty member of the Department of English and Comparative Literature.

Required Courses (9 units)

English 300 Analysis of Literary Forms (3)

English 301 Advanced College Writing (3)

English 334 Shakespeare (3)

Survey Courses (at least 6 units)

English 311 Masters of British Literature to 1760 (3)

English 312 Masters of British Literature from 1760 (3)

English 321 American Literature to Whitman (3)

English 322 American Literature from Twain to the

Moderns (3)

Comp Lit 324 World Literature to 1650 (3)

Comp Lit 325 World Literature from 1650 (3)

Electives (at least 6 units)

Chosen from additional English and Comparative Literature courses, with the exception of English 101 and 106.

Students may take the approved upper-division writing course(s) in their majors instead of English 301. They must, however, complete 21 units in English and Comparative Literature.

MASTER OF ARTS IN ENGLISH

The master's degree program in English offers students the opportunity to achieve a multifaceted understanding of literature and language as well as to study particular areas of their own interest. Such areas include literature, linguistics, creative writing and the teaching of English. The degree is useful to those teaching in high schools or community colleges, to those seeking careers in writing and publishing, and to those intending to take further graduate work.

Admission to Graduate Standing: Conditionally Classified

University requirements include a bachelor's degree from an accredited institution and a minimum GPA of 2.5 in the last 60 semester units attempted.

Graduate Standing: Classified and sold and are sold deliberations.

Classified graduate standing requires a bachelor's degree in English from an accredited institution with at least a 3.0 grade-point average in the major courses provided that a minimum of 24 units of upper-division course work is included; or if the student holds a bachelor's degree in another major, 24 units of upper-division course work in English with at least a 3.0 grade-point average must have been completed. If the student lacks the prerequisite number of English courses, they must be made up before beginning work in the master's degree program, with at least a 3.0 in such makeup course work. In the event that the student's GPA in prerequisite English courses is less than 3.0, six to nine units of probationary, adviser-approved course work may be assigned. If the GPA in these probationary courses is 3.0 or better, the student may be classified. Some courses taken to make up qualitative deficiencies may be credited toward the M.A., if completed with a grade of B or better, and if applicable to the student's particular study plan. Courses taken to remove quantitative deficiencies may not be applied to the M.A. program.

A student is required to have two years of one foreign language at the college or university level, an approved foreign language examination, or six units of study in comparative literature. If taken as graduate work, these six units may be applied to the master's degree under "units in subjects related to English."

A study plan must be developed and approved for admission to classified graduate standing.

Study Plan

The manura degree supram in congravative humanare pro Units	-
Minimum units in English courses restricted to graduate students (500 series)	
Units in specified upper-division courses in English	
Total required units	1

To complete the degree requirements, students must pass a written comprehensive examination. Failed parts of the examination may be retaken only once. Notice of intention to take the examination must be on file with the graduate secretary within six weeks of the first class of the semester. With approval, students may substitute a research or creative writing project for one part of the examination.

Note: The student is strongly advised to take the steps necessary for admission to the program before registering for the first graduate courses. Part of the admission process is to confer with the graduate adviser, who will analyze prerequisites and designate those courses which will apply to the degree program. Courses taken by a conditionally classified student do not necessarily apply toward a degree. At the time the student achieves classified standing, no more than nine units of postgraduate course work may be applied to the master's degree program. For further information, consult the Department of English and Comparative Literature.

Comparative Literature Courses

Ancient through Medieval Times (3) Ancient through Medieval Times (4) Ancient through Medieval Times (4) Ancient through Medieval Times (5) Ancient through Medieval Times (6) Ancient through Medieval Times (6) Ancient through Medieval Times (7) Ancient through

111 Literature of the Western World from the Renaissance through the 19th Century (3)
(Same as English 111)

202 Short Story (3)
(Same as English 202)

203 Introduction to the Novel (3)

The techniques and structure of representative European and American novels. (Same as English 203) (Same as Comparative Literature 2031, sib-esto

205 Introduction to Drama (3) (Same as English 205) (Chambelly averaged analysment) 205

206 Introduction to Poetry (3) (Same as English 206) work, and/or the onegot playing an brews ald

257 Writing Haiku (1) (Same as English 257) (Same as English 257)

312 The Bible as Literature (3)

Prerequisite: upper-division standing. Literary qualities of biblical literature and the influence of major themes upon Western literary traditions.

315 Classical Mythology in World Literature (3)

Prerequisite: upper-division standing. Greek and Roman myths which have been of continuing significance in Western world literature.

316 Celtic Mythology and Early Irish Literature (3) Early Irish literature and Irish and Welsh mythological literature; comparative and archeological relationships.

320 Greek and Roman Literature (3)

Readings in English translation from the literature of classical Greece and Rome.

321 Germanic Mythology and Saga Literature (3)

Germanic mythology, including comparative myth and archeological relationships, and Icelandic saga.

324 World Literature to 1650 (3)

Prerequisite: upper-division standing. Oriental and western literature from the beginning to 1650.

325 World Literature from 1650 (3) Prerequisite: upper-division standing. Oriental and Western literature from 1650 to the present.

332 Medieval Literature (3) and appropriate daily and settle and (Same as English 332) Strong at the congress of the strong as a strong at the strong as a strong at the strong as a strong at the strong at th

333 Literature of the Renaissance (3)

The Renaissance as a literary movement, from Erasmus to Montaigne and Cervantes.

352 African Literature (3)

(Same as English 352 and Afro-Ethnic Studies 352)

355 Images of Women in Literature (3) (Same as English 355)

360 Irish Literature (3)

Irish literature from the early Middle Ages to the present.

373 Masters of Russian Literature (3)

Prerequisite: upper-division standing. Pushkin, Gogol, Dostoyevsky, Tolstoy, Chekhov and others, and their relationship to Western literature.

374 Soviet Literature (3) A MACH annual reality lukesoons

Prerequisite: upper-division standing. Soviet peoples' literature from 1918 to the present. Basic trends in literary criticism. Authors studied: Gorky, Blok, Mayakovsky, Zamyatin, A. Tolstoy, Zoshchenko, Sholokhov, Pasternak, Rozov, Evtushenko, Voznesensky, and others. sensing langeones of antity supermans

380 Introduction to Asian Literature (3)

Prerequisite: upper-division standing. Selected translations of Arabic, Persian, Indian, Chinese and Japanese literature.

423 Topics in Asian Literature (3)

Prerequisites: upper-division standing and English 200 or other appropriate course approved by the instructor. Specific topics will vary from semester to semester. May be repeated with different content for additional credit.

453 The Novel in France and Germany (3)

Novels in translation; principles of the narrative arts. Goethe, Stendhal, Flaubert, Mann, Kafka, Proust and others.

499 Independent Study (1-3) 111 Literature of the Western World from

572 Graduate Seminar: Literary Genres (3) (Same as English 572)

574 Graduate Seminar: Special Problems in Literature (3) (Same as English 574) A TOTOLITACH TO THE REPORT OF THE STREET

579 Graduate Seminar: Problems in Criticism (3) (Same as English 579)

598 Thesis (3)

(E) muteratul of nonconditional (3)

599 Independent Study (1-3) to vote and of nontrulement in A

English Courses

For world literature in English translation see courses under Comparative Literature. The stronger agong figuresen self rerequi

099 Developmental Writing (3)

An intensive course in basic writing skills. Designed to prepare students for English 101. Required of, and open only to, students who score below minimum standard on the English Placement Test (EPT). Degree credit is not awarded for this course. (Same as Foreign Language Education 099)

101 Beginning College Writing (3)

Prerequisite: English 099, a satisfactory score on the English Placement Test, or exemption from the EPT. An introductory course in the fundamentals of expository prose. Emphasizes grammatical and basic rhetorical concepts and practices necessary for successful college writing. (CAN ENGL 2)

103 Critical Reasoning and Writing (3)

Prerequisite: English 101 or the equivalent. An introduction to thinking skills as they relate to writing skills: constructing logical arguments, writing in conceptual patterns, detecting and avoiding fallacies.

105 Introduction to Creative Writing (3)

Exploratory creative writing with the opportunity to write in various genres. No credit toward the major. (CAN ENGL 6)

106 Writing for ESL Students (3)

Prerequisite: consent of instructor. Fundamentals of written English for speakers of other languages. Emphasis on idiomatic usage and paragraph structure in written expression. May be repeated once for credit.

110 Literature of the Western World from Ancient through Medieval Times (3) and and to cold order process from the second of the second order of the second order of the second order or the second order order order or the second order o

Representative writers and works from the ancient through the medieval world. (Same as Comparative Literature 110)

111 Literature of the Western World from

the Renaissance through the 19th Century (3) Representative writers and works from the Renaissance through

the 19th century. (Same as Comparative Literature 111).

199 Intensive Writing Review (3)

Prerequisite: consent of instructor. Restricted to students who have failed the EWP at least twice. Intensive review of the fundamentals of writing expository prose. Meets examination portion of baccalaureate writing requirement. Carries no credit toward graduation.

200 Introduction to Literature (3)

An introduction to the study of fiction, drama and poetry. Concentration on the critical understanding of literary types rather than on their historical development. Carries no credit toward the major.

201 Intermediate College Writing (3)

Recommended: English 101. Techniques of investigation, documentation and organization essential for writing academic papers: the research paper, reports, critiques, essay examinations.

202 The Short Story (3)

The structure and technique of the short story. Critical analysis of selected American and European short stories. (Same as Comparative Literature 202)

203 Introduction to the Novel (3)

(Same as Comparative Literature 203)

204 Intermediate Creative Writing (3) (301 dailed as some?)

Recommended: Introduction to Creative Writing, consent of instructor. A course providing experience in creative writing beyond the introductory level. Emphasis on poetry, the short story, and/or the one-act play.

205 Introduction to Drama (3)

Analysis of individual examples of dramatic literature. (Same as Comparative Literature 205) (Comparative Literature 205)

206 Introduction to Poetry (3)

Analysis of the various kinds of English poems. (Same as Comparative Literature 206) (CAN ENGL 20) 31.50 Classical Mythology in Sandul

257 Writing Haiku (1)

After a brief study of the development of haiku in Japan, students will write and revise haiku in English and share them with the class. With consent of instructor, may be repeated for no more than three units of credit. (Same as Comparative Literature 257)

300 Analysis of Literary Forms (3)

The main literary forms — prose fiction, poetry and drama — are studied and analyzed. English majors should schedule this basic course as early as possible.

301 Advanced College Writing (3)

Prerequisite: English 101. An advanced course in writing expository prose. Emphasizes precision in rhetoric and development of individual style by concentration on matters of diction, audience, emphasis and persuasion. Required of English majors seeking a secondary credential.

303 The Structure of Modern English (3)

Prerequisite: junior standing. The grammar of contemporary English. Modern English usage. Required of English majors seeking a secondary credential. Must be taken before student teaching.

305 The English Language in America (3)

American English, its origins, its regional and social dialects, and its role in American history and in such institutions as schools, corporations, government and the media. (Same as Linguistics 305)

311 Masters of British Literature to 1760 (3)

Prerequisite: upper-division standing. Major periods and movements, major authors and major forms through 1760.

312 Masters of British Literature from 1760 (3)

Prerequisite: upper-division standing. Major periods and movements, major authors and major forms from 1760 through modern times.

314 Editing a Literary Journal (3)

Prerequisites: Upper-division standing and consent of instructor. Experience in day-to-day running of a literary journal under guidance. Activities include helping to select from submissions, reject manuscripts, write and place ads, select type faces and art work, administer contests, work with printers and maintain files. May be repeated for up to six units of credit, with a limit of three units applicable toward the English major.

320 Literature of the American Indians (3)

Prerequisite: upper-division standing. The prose and poetry of the North American Indian tribes.

321 American Literature to Whitman (3)

Prerequisite: upper-division standing. Major writers such as Hawthorne, Poe, Melville, Emerson, Thoreau, Whitman, Dickinson.

322 American Literature from Twain to the Moderns (3)

Prerequisite: upper-division standing. Major writers such as Twain, James, Crane, Hemingway, Faulkner, O'Neill, Frost, Eliot.

325 American Ballad and Folksong (3)

Anglo-American balladry and folksong; their historical development, ethnic background and poetical values.

326 The American Frontier in Literature (3)

Prerequisite: any courses in American literature, American studies or American history. Thematic study of American literature as it reflects the changing frontier experience and establishes national myths and symbols.

332 Medieval Literature (3)

Readings in modern English translation from the medieval literature of England and the continent from St. Augustine to Sir Thomas Malory. (Same as Comparative Literature 332) from Indo-European to modern American

333 Chaucer (3)

The Canterbury Tales and Chaucer's language. The vocabulary, pronunciation, grammar and syntax of the East Midland dialect English critics, from the Renaissance to recurring in relationship to the classical of Middle English.

334 Shakespeare (3)

A study of the major plays.

335 Elizabethan and Jacobean Drama (3)

The dramatic tradition in plays by such dramatists as Marlowe, Jonson, Webster, Beaumont and Fletcher.

336 Elizabethan Poetry and Prose (3)

The nondramatic literature of the English Renaissance.

337 17th-Century Poetry and Prose (3)

Nondramatic literature of the period from 1603 to 1660 exclusive of Milton.

338 The Drama of the Restoration & the 18th Century (3) Representative plays of the Restoration and the 18th century.

The development of such dramatic movements as the heroic play, Restoration comedy and sentimental drama.

340 Restoration and 18th Century Poetry and Prose (3)

Major writers such as Butler, Rochester, Dryden, Pepys, Swift, Addison and Steele, Pope, Boswell, Johnson; selected minor may treat conventional literary periods or specific cultur-srating

341 Milton (3)

The poetry and prose in the light of Milton's intellectual development.

343 The Romantic Movement in English Literature (3)

Major writers such as Burns, Blake, Wordsworth, Coleridge, Byron, Shelley and Keats.

344 Victorian Literature (3)

Major writers such as Carlyle, Tennyson, Browning, Arnold, Ruskin and Pater. The land the sold the sold the sold to the sold the sold

345 The Development of the English Novel through Jane Austen (3) and will disable stroom to alcanomab

The English novel from its beginnings to the 19th century; such novelists as Defoe, Richardson, Fielding, Sterne and Austen.

346 The Development of the 19th-Century

English Novel (3)

Major novelists such as the Brontes, Thackeray, Dickens, Eliot and Hardy. A to the potential ordered booms of FOR

348 Horror Fiction (3)

Horror/occult fiction (or "dark fantasy") from Mary Shelley to the present, including such writers as E. A. Poe, J. S. LeFanu, Bram Stoker, H. P. Lovecraft, Fritz Leiber and Stephen King.

349 Fantasy Fiction (3)

Fantasy in literature from Ariosto to Brautigan.

350 Detective Fiction (3)

Detective fiction from Edgar Allan Poe to the present, including writers such as Sayers, Christie, Chandler, Hammet and Ross MacDonald.

351 Science Fiction (3)

Science fiction as a literary genre, including future-scene fiction, the utopian novel, the superman/woman novel and short stories.

352 African Literature (3)

Prerequisite: upper-division standing. African literature written in the English language; the fiction, poetry and drama of the new nations. (Same as Comparative Literature 352 and Afro-Ethnic Studies 352)

353 Cultural Pluralism in American Literature (3)

Prerequisite: upper-division standing. The role of varied cultural groups in the USA as exemplified in American literature. Topics may include Jewish writers, Images of Immigrants, Asian-American writers, American Indian literatures, and others.

354 Linguistics and Literature (3)

(Same as Linguistics 354) And the Medical Control of the Medical Con

355 Images of Women in Literature (3)

Prerequisite: upper-division standing. Images of women in genres such as autobiography, poetry, drama, novel. Individual sections may treat conventional literary periods or specific cultures. May be repeated with different content for additional credit.

356 The Literature of Aging (3)

Prerequisite: upper-division standing. Images of aging and old age in various genres (fiction, drama, poetry) drawn from Western and Non-western literatures. Topics include the social position of the aged, the challenge of middle and old age, aging parents, waning health and dying.

360 Scientific and Technical Writing (3)

Open to science and non-science students. Scientific and professional writing and editing, with attention to outlines and abstracts, description, process explanation, instructions, and fundamentals of reports, feasibility studies, proposals, internal memos, and letters. The symmetry at most leven deligned self-

365 Legal Writing (3)

Advanced compositions stressing logic, reasoning, and legal

404 Advanced Creative Writing (3)

(Formerly 304)

Recommended: Intermediate Creative Writing. Instruction and practice in a workshop setting for the student with some experience in creative writing; emphasis on writing for professional markets. Consult the class schedule to determine instructor's emphasis. May be repeated for credit. A moint waster as a

410 Introduction to Afro-American Literature (3)

(Same as Afro 410)

423 Early American Literature (3)

Prerequisite: English 321 or consent of instructor. The literature of colonial and revolutionary America, including the Puritans, 18th century deism and rationalism and the literary antecedents of American democratic thought.

433 Children's Literature (3)

Prerequisites: One of the following: English 110, 111, 200, 300, 311, 312, 321, 322, Comp Lit 324, 325, or an equivalent course. World literature written primarily for children, including material from the oral tradition, realistic fiction, fantasy and poetry.

434 Literature for Junior and Senior High School (3)

The evaluation, selection, and interpretation of fiction, nonfiction, drama and poetry reflecting the broad range of interest of young people from 12 to 17 years of age.

435 Studies in Shakespeare (3)
Prerequisite: English 334 or consent of instructor. Problems of dramatic structure and artistic meanings.

436 Changing Words: History, Semantics and soil!! administer contests, work with perpension Translation (3)

(Same as Linguistics 436)

462 Modern British and American Novels (3)

Prerequisite: survey of English, American or world literature; an upper-division literature course; or consent of instructor. Modern British and American novels from 1900 to 1950.

463 Contemporary Novels in English (3)

The novel in English since World War II.

464 Modern British and American Drama (3)

Prerequisite: survey of English, American or world literature; an upper-division literature course; or consent of instructor. British and American drama from 1900 to 1950.

465 Contemporary Drama in English (3)

Drama in English from 1950 to the present, and appropriate Anglish Ang

466 Modern British and American Poetry (3)

Prerequisite: survey of English, American or world literature; an upper-division literature course; or consent of instructor. British and American poetry from 1900 to 1950.

467 Contemporary Poetry In English (3)

Poetry in English from 1950 to the present.

490 History of the English Language (3)

Prerequisite: senior or graduate standing. The historical development of English vocabulary, phonology, morphology and syntax from Indo-European to modern American English.

491 Traditions of English Literary Criticism (3)

Prerequisite: English 300 or consent of instructor. The major English critics, from the Renaissance to the beginning of the 20th century, in relationship to the classical theories of criticism.

492 Modern Critical Theory (3)

Prerequisite: English 300 or consent of instructor. The major movements in 20th-century British and American criticism.

497 Peer Tutoring in Writing (1)

Prerequisite: junior standing. Recommended: English 301 and English 303. Techniques of tutoring student-writers who have problems with English grammar and composition.

498 English Internship (3)

Prerequisites: junior or senior status and consent of faculty supervisor. Experience in the practical application of studies in literature and language to work outside the university. Hours to be specified; enrollment limited; C/NC; no credit toward major.

499 Independent Study (1-3)

Open to advanced students in English with consent of department chair. May be repeated for credit.

500 Introduction to Graduate Studies in Literature (3)

Research techniques, analytical approaches and theories of literature. A course providing basic orientation in graduate literary studies.

571 Graduate Seminar: Major Writers (3)

As appropriate to the specialized research and publication of instructor; major figures such as Shakespeare, Milton, Chaucer, Melville, Twain, Hawthorne, Joyce and Coleridge. May be repeated with different content for additional credit.

572 Graduate Seminar: Literary Genres (3)

As appropriate to the specialized research and publication of instructor; major literary types such as the epic, the novel, the short story, lyric poetry, tragedy, comedy and historical drama. May be repeated with different content for additional credit.

573 Graduate Seminar: Cultural Periods (3)

As appropriate to the specialized research and publication of instructor; the literature of a cultural period from Anglo-Saxon to modern times. May be repeated with different content for additional credit.

574 Graduate Seminar: Special Problems in Literature (3)

As appropriate to the specialized research and publication of the instructor; special problems such as influences on literature, including philosophical, religious, scientific, geographic and other ecological viewpoints. May be repeated with different content for additional credit.

575 Graduate Seminar: Topics in High School Teaching (3) Specific topics will vary from semester to semester. May be repeated with different content for additional credit.

579 Graduate Seminar: Problems in Criticism (3)

Historical development and schools of criticism. Individual offerings within this course number may deal with only one aspect of critical problems. May be repeated with different content for additional credit. (Same as Comparative Literature 579)

580 Special Topics in Linguistics (3)

(Same as Linguistics 580)

590 Writing Theory and Practice for Teaching Assistants

Prerequisite: English 497 and admission to the English Department Teaching Assistant Program. Theory and practice of the composing process for the beginning college teacher of expository writing. Required of all English Department Teaching Assistants during their first semester of teaching.

590S Teaching Assistant Supervision (1)

Prerequisite: English 590. Supervised teaching of developmental writing and freshman composition. No credit toward the M.A. in English. This course may be repeated for credit.

597 Project (3)

Prerequisite: classified graduate standing. A research paper, a critical study, a portfolio of creative writings, or the results of fieldwork or experiment. Supervising professor and English department graduate studies committee must approve the proposal in advance of registration.

599 Independent Graduate Research (3)

Research projects in areas of specialization beyond regularly offered course work. Oral and written reports. May be repeated with different content for additional credit.

English Education Courses

404 Microcomputers for English Teachers (3)

Prerequisites: Admission to the credential program or permission of the instructor. A hands-on computer course for secondary school English teachers. Focus is on the computer as a tool for English teachers and on classroom applications using computers to enhance instruction and improve writing and thinking skills.

442 Teaching English in the Secondary School (3)

Prerequisite: admission to teacher education. Principles, methods and materials of teaching English in the secondary school.

449E Externship in Secondary Teaching (3)

Student teaching in the secondary school during the first semester of the teacher preparation program. The candidate plans and teaches assigned lessons during the last third of the semester.

449I Internship in Secondary Teaching (10)

Student teaching in the secondary school during the second semester of the teacher preparation program. The candidate has the same instructional hours of responsibility as the master teacher.

449S Seminar in Secondary Teaching (2)

One afternoon a week the candidate participates in a seminar with the university supervisor.

Environmental Studies Program

Program Coordinator: Stewart Long Associate Coordinator: Joel Weintraub Program Office: McCarthy Hall 103

Program Offered

Master of Science in Environmental Studies

Program Council

Gordon Bakken (History), Aileen Baron (Anthropology), Vincent Buck (Political Science), Gary Hannes (Geography), Stewart Long (Economics), Dindial Ramasmooj (Civil Engineering), Prem Saint (Geological Sciences), Michael Steiner (American Studies), Barry Thomas (Science Education), Dave Walkington (Fullerton Arboretum), Joel Weintraub (Biological Science), William Van Willis ern httparmet. To the includentian to the second of a challenge of middle and old age, acros parents. (Chemistry).

Advisers and dependent Research (1) has he been able to be a dependent Post and Advisers

Program: Stewart Long Environmental Sciences: Prem Saint Environmental Policy and Planning: Gordon Bakken Environmental Education & Communication: Barry Thomas

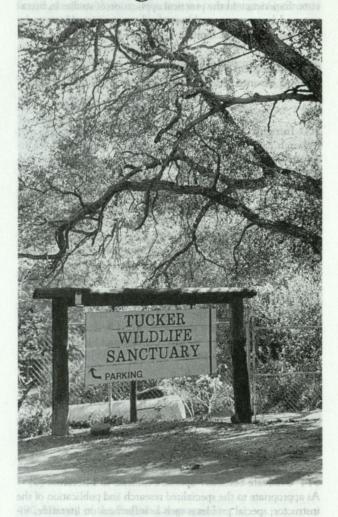
INTRODUCTION

Environmental Studies is an interdisciplinary program in human interaction with the environment — cultural as well as natural. Courses integrate knowledge and methods from several disciplines, all of which independently study special aspects of the environment. The program treats the social and cultural aspects of human attempts to exploit, modify and achieve balance with the environment. Curricula include concerns for ecological change, environmental pollution, technological solutions, balanced land utilization, and aspects of planning. The program prepares an individual student for work as a professional in the environmental field, and a student's thesis is the ultimate demonstration of his or her capacity to deal broadly with the environment.

Students select a course of study from one of three areas:

ENVIRONMENTAL SCIENCES: This area deals with the application of physical and biological science principles to environmental issues. Topical concerns include environmental ecology, water and air resources, environmental oceanography and geology. Students in this emphasis should have a strong background in biology, chemistry, earth science, engineering, geology or physics.

ENVIRONMENTAL POLICY AND PLANNING: This area deals with the concepts and method of the social and behavioral sciences as applied to environmental policy and planning. Topical concerns include urban and regional planning, environmental aspects of administration, design, behavior, perception, law and economics. Students in this area may have backgrounds in the social or behavioral sciences and the humanities.



579 Graduate Seminar: Problems in Aribinary Habott 204

English 303. Techniques of minimum distribution 8 1082

ENVIRONMENTAL EDUCATION AND COMMUNICATION:

This emphasis approaches the study of the environment through such related disciplines as communication, biology, earth science and geography. Students require skills of observation, analysis and presentation appropriate for the classroom teacher, the outdoor naturalist or communication specialist. Students in this emphasis area should have a background in natural science, education or communications.

MASTER OF SCIENCE IN **ENVIRONMENTAL STUDIES**

Admission to Graduate Standing: Conditionally Classified

University requirements include a baccalaureate from an accredited institution and a grade-point average of 3.0 in the last 60 units of course work attempted or a minimum grade of B in 9 approved units of graduate course work attempted. In addition, three letters of recommendation are required.

An undergraduate course in ecology and one in statistics are prerequisites for admission. Students without these prerequisites may be admitted provisionally but must take these courses prior to applying for classified standing.

Graduate Standing: Classified

After completion of no more than nine semester units of adviserapproved course work and the development of an approved study plan, the student should apply for classified standing.

Study Plan

The M.S. in Environmental Studies requires the completion of 36 units of adviser-approved course work with a GPA of 3.0 or better and a thesis. The student's thesis committee should be comprised of three members, representing at least two different fields, with one being a member of the Environmental Studies Council.

Environmental Studies Core (9 units)

- 500 Environmental Issues and Approaches (3)
- 510 Environ Evaluation and Protection (3)
- 520 Social Environmental Analysis (3)

A student who can demonstrate competency in any core course subject matter may, with the permission of the graduate program adviser, substitute a suitable three-unit course from another department program.

Environmental Studies Electives (6 units)

- 595 Selected Topics in Environmental Problems (3)
- 596 Internship in Environmental Studies (3)
- or 599 Independent Graduate Research (3)

Thesis 598 (3 units)

Cross-Disciplinary Electives Work (18 units)

500-level courses (minimum 6 units), one course in planning and additional courses with the prior approval of the faculty adviser. Includes minimum 12 units outside Environmental Studies Coursework:

For further information, consult the graduate program adviser.

Environmental Studies Courses

500 Environmental Issues and Approaches (3)

Prerequisite: graduate standing in Environmental Studies or consent of instructor. Discussions of interdisciplinary approaches to environmental problems and research methods. Students prepare seminars and papers on research design for potential thesis topics. Meets graduate writing requirement.

510 Environmental Evaluation and Protection (3)

Prerequisites: graduate standing in environmental studies or consent of instructor. Environmental parameters (water, air, solid wastes, noise, radiation, etc.). Techniques in monitoring and measurement; effect on human health; environmental quality standards and controls. Demonstrations and field trips.

520 Social Environmental Analysis (3)

Prerequisites: graduate standing in environmental studies or consent of instructor. Concepts and methods used by social and behavioral scientists to analyze the built environment, and behavior within environment settings. Such topics as environmental perception, design-behavior research, social impacts, law, growth management, environmental health and research on hazards.

595 Selected Topics in Environmental Problems (3)

Prerequisite: graduate standing in environmental studies or consent of instructor. Various environmental topics, contemporary or historic, that focus on problems (e.g., law, impact assessment, planning, etc.) Topic chosen and outline will be circulated prior to registration. May be repeated twice (with different topics) for credit.

596 Internship in Environmental Studies (3)

Prerequisite: graduate standing in environmental studies or consent of instructor. Field experience with a governmental or private agency. Seminars and professional experience.

598 Thesis (3)

Prerequisites: classified status in environmental studies program and consent of instructor. Planning, preparation and completion of an acceptable, interdisciplinary thesis. Credit on submission of thesis.

599 Independent Graduate Research (3)

Prerequisite: graduate standing and consent of instructor and program coordinator. May not be repeated for credit.

Department of Foreign Languages and Literatures

Department Chair: Eva Van Ginneken Department Office: Humanities 835C Language Laboratory: Humanities 325

Programs Offered
Bachelor of Arts in French
Minor in French
Master of Arts in French
Bachelor of Arts in German
Minor in German

Master of Arts in German

Bachelor of Arts in Spanish

Minor in Spanish

Master of Arts in Spanish
Minor in Japanese
Minor in Portuguese

Master of Science in Education (Teaching English to Speakers of Other Languages)

Certificate in Teaching English to Speakers of Other Languages

In cooperation with the School of Business Administration and Economics the Bachelor of Arts in International Business with a concentration in French, German, Japanese, Portuguese or Spanish

Faculty

Linda Andersen, Oswaldo Arana, Nancy Baden, Samuel Cartledge, Ellen Cochrum, Modesto Dìaz, Michèle Druon, Janet Eyring, Leon Gilbert, Ronald Harmon, Josefina Hess, Arturo Jasso, Jacqueline Kiraithe, Keiji Matsumoto, Doris Merrifield, George Peale, Ervie Peña, Marcial Prado, Charles Shapley, Nobuko Sugamoto, Curtis Swanson, Marjorie Tussing, Eva Van Ginneken, Jon Zimmermann

INTRODUCTION

The Department of Foreign Languages and Literatures offers a wide diversity of programs of language study, aimed at meeting the varying needs of today's students.



A student who can demonstrate competency in any core course subject matter may, with the permission of the graduate program adviser, substitute a suitable three-unit course from another department program.

Selected Topics in Environmental Problems (3)
Internship in Environmental Studies (3)
or 599 Independent Graduate Research (3)

In our rapidly changing world, it is imperative that we lower the barriers that impede understanding. Communicating effectively in a foreign language is not, however, simply an exercise in the acquisition of linguistic skills. In learning another language we also gain insight into the thinking of another culture (often very different from our own), insights which afford us the perspective necessary to examine critically our own cultural values. In our department we view language, culture and literature as integrallyrelated facets of the complex phenomenon of communication which help us to better understand each other and our roles in the ever-changing process of civilization.

Our department has well-established baccalaureate and master's programs in French, German and Spanish. Additionally, we offer a postbaccalaureate program leading to a Certificate in Teaching English as a Second Language and an M.S. in Teaching English to Speakers of Other Languages (TESOL). Beyond our degree and certificate programs we offer minors in French, German, Japanese, Spanish and Portuguese. Lower-division programs are available in Chinese (Mandarin), Greek (Koine), Hebrew, Italian, and Latin. Other languages, such as Arabic and Vietnamese, may be offered when there is sufficient student demand.

Majors and/or minors in Foreign Languages and Literatures are designed for students who are planning a teaching career at the elementary or secondary level, those wishing to pursue more advanced studies in the language and literature of their field, or the growing number of individuals who will find foreign language ability and sensitivity to other cultures an increasingly important adjunct career skill. Such individuals will include students planning careers in social services, the foreign service, translation services, literary fields, international finance and banking and the rapidly expanding world of international business. Our goal is to assist students in perfecting their foreign language skills (all courses except Greek and Latin are taught in the target language), to deepen their knowledge about language and the humanities by reading representative authors in its literature, and to familiarize them with the cultural tradition of the people whose language they are studying.

CREDENTIAL INFORMATION

French, German and Spanish offer waiver programs approved by the State of California for the Ryan Single Subject Credential. French, German and Spanish majors may also follow the approved waiver program for the Multiple Subject Credential (Ryan). Students should contact the departmental Foreign Language Teacher Education Committee for details.

Students interested in applying to a teacher education credential or a certificate program must consult with a teacher education adviser for a preliminary program review in the semester prior to application to the program. Information concerning the programs is available from the Department of Foreign Languages and Literatures.

Before being admitted to a credential program, all prospective teachers may be asked to pass a proficiency examination in which their skills of listening, speaking, reading, writing and knowledge of linguistic principles will be tested. Students should inquire at the department office for current information.

SPECIAL PROGRAM INFORMATION

Language Concentration for International Business

The Department of Foreign Languages and Literatures offers a language concentration in French, German, Japanese, Portuguese, and Spanish for the International Business major consisting of 12 units of upper-division language study. For description of the international business program, please see School of Business Administration in this catalog.

International Programs

In accordance with recommendations made by the Modern Language Association of America, the Department of Foreign Languages and Literatures encourages students to participate in a study-abroad program. Such programs facilitate student mastery of the language and will afford additional insights into the foreign culture. The California State University's International Programs offers a wide variety of study opportunities on the junior, senior and graduate level.

Language majors are required to complete the following minimum of courses on campus before departure for, or upon return from, overseas:

- A. for the B.A.: 12 units of upper-division courses consisting of a minimum of nine units at the 400 level in the major
- B. for the M.A.: 15 units consisting of a minimum of 12 units at the 500 level in the area of specialization.

THE CSU/UCLA COOPERATIVE PROGRAM IN FOREIGN LANGUAGES AND LITERATURES

The Cooperative Program in Foreign Languages and Literatures gives students the opportunity, without additional fees, to take courses in foreign languages not available on this campus or any neighboring CSU campus but offered at UCLA. For information regarding enrollment and qualifications, interested students should inquire at the department office.

The Language Laboratory

Students enrolling in courses 101, 102, 203, 204 are required, in addition to the regular class periods, to practice in the language laboratory. The 36-station laboratory operates like a library; students may use it at a time most convenient to them, preferably every day in sessions of 15 to 30 minutes. Further details will be announced by each instructor and by the supervisor of the language laboratory.

Advisers

Undergraduate: All faculty members serve as advisers. Students may check at the department office to determine which faculty member has been assigned.

Foreign Language Teacher Education and TESOL: Nancy Baden, Samuel Cartledge, Ronald Harmon, Jacqueline Kiraithe, Marjorie Tussing, Jon Zimmermann.

Graduate: Charles Shapley (M.A. in French), Jon Zimmermann (M.A. in German), Ervie Peña (M.A. in Spanish), Jon Zimmermann (M.S. in Education TESOL).

Placement

Students may enroll at any point in the sequence of courses for which their previous study and/or experience prepares them. Students with no language background should enroll in fundamental 101-level courses. Normally, two years of high school language study are counted as one year of college language. Students just completing two years of high school language should probably begin at 200-level intermediate courses. A minimum of four years of high school language, or its equivalent, is considered a prerequisite for more advanced 300-level major work. Due to the sequential nature of language instruction, consultation with an adviser in the Department of Foreign Languages and Literatures is strongly recommended before enrolling.

Transfer Students

In accordance with university rules, all transfer students must complete 30 units in residence at Cal State Fullerton. Of these 30 units, the transfer student majoring in French, German or Spanish is required to complete 12 upper-division units, i.e., 300, 400 or 500-level courses, including 9 units of 400-levels classes in the major on the Cal State Fullerton campus. The specific courses will be determined in consultation with the student's adviser and approved by the chair.

Upper-Division Writing Requirement

English 301 satisfies the course portion of the upper-division writing requirement for all foreign language majors.

BACHELOR OF ARTS IN FRENCH

Basic Requirements (20 units)

Each of the following courses or their equivalent:

French 101	Fundamental French-A (5)
French 102	Fundamental French-B (5)
French 203	Intermediate French-A (3)
French 204	Intermediate French-B (3)
French 230	Intermediate Diction and Phonetics (2)
French 240	Intermediate Conversation and Composition (2)

Upper-Division Requirements (a total of 33 upper-division units) (21 units required as listed below)

English 301	Advanced College Writing (3)
French 315	Origins of Modern France (3)

French 317 Advanced Composition and Grammar (3) or French 318 Advanced Composition and

Grammar (3)

French 325 Contemporary French Civilization (3)

French 375 Introduction to Literature (3)

French 415 French Classicism (3)

French 425 French Romanticism (3)

Plus in consultation with an adviser, choose two from the following Seminars in 20th Century French Literature:
(6 units required)

French 475A Exploration of the Self (3)

French 475B In Search of the Real (3)

French 475C The Individual and Society (3)
French 475D Literature and Anti-Literature (3)

Plus in consultation with an adviser, choose two from the following electives: (6 units required)

French 300 French Conversation (3)

French 310 French in the Business World (3) T

French 311 French for International Business (3)

French 317 Advanced Composition and Grammar (3) or French 318 Advanced Composition and Grammar (3)

French 385 Techniques of French-English Translation (3)

French 407 French Film (3)

French 466 Introduction to French Linguistics (3)

French 475 Seminar in 20th Century Literature (3-6)

French 485 Senior Seminar in French Literature (3)

MINOR IN FRENCH

Basic Requirements (20 units)

Each of the following courses or their equivalent.

French 101 Fundamental French-A (5)

French 102 Fundamental French-B (5)

French 203 Intermediate French-A (3)

French 204 Intermediate French-B (3)

French 230 Intermediate Diction and Phonetics (2)

French 240 Intermediate Conversation and Composition or equivalent (2)

Upper-Division Requirements (a total of 12 units) (6 units required from these courses)

French 315 Origins of Modern France (3)

or French 325 Contemporary French Civilization (3)

French 317 Advanced Composition and Grammar (3)

or French 318 Advanced Composition and

Grammar (3)

Plus in consultation with an adviser, choose two additional courses from the following: (6 units required)

French 300 French Conversation (3)

French 310 French in the Business World (3)

French 311 French for International Business (3)

French 315 Origins of Modern France (3)

or French 325 Contemporary French Civilization (3)

French 317 Advanced Composition and Grammar (3)

or French 318 Advanced Composition and Grammar (3)

French 375 Introduction to Literature (3)

French 385 Techniques of French-English

Translation (3)

French 407 French Film (3)

French 415 French Classicism (3)

French 425 French Romanticism (3)

French 466 Introduction to French Linguistics (3)

French 475A Exploration of the Self (3)

French 475B In Search of the Real (3)

French 475C The Individual and Society (3)

French 475D Literature and Anti-Literature (3)

French 485 Senior Seminar in French Literature (3)

BACHELOR OF ARTS IN GERMAN

Basic Requirements (20 units)

Each of the following courses or their equivalent.

German 101 Fundamental German-A (5)

Fundamental German-B (5) German 102

Intermediate German-A (3) German 203

Intermediate German-B (3) German 204

Intermediate Reading (2) German 213

German 214 Intermediate Reading (2)

Upper-Division Requirements (a total of 33 upper-division units) (18 units required as listed below)

English 301 Advanced College Writing (3)

German 315 Introduction to German Civilization (3)

German 317 Advanced Conversation and

Composition (3)

German 325 Current Trends in Culture of German-Speaking Peoples (3)

German 375 Intro to Literary Forms (3)

German 399 German Phonetics (3)

Plus in consultation with an adviser, choose three of the following literature courses (9 units required):

German 430 German Literature and Culture to the

Baroque (3)

German 440 18th-Century German Literature and

German 450 19th-Century German Literature and

Culture (3)

German 460 20th-Century German Literature and admission to either relatinger? Culture (3)

German 482 German Literature & Culture in Film (3)

Plus in consultation with an adviser, choose two courses from the following (6 units required):

German 300 German Conversation (3)

German 310 German in the Business World (3)

German 311 German for International Business (3)

German 401 Advanced Conversation Practice and

Vocabulary Expansion (3)

German 466 Introduction to German Linguistics (3)

German 485 Senior Seminar in German Literature (3)

MINOR IN GERMAN and answer Adding 2 144 dataset

Basic Requirements (20 units)

Each of the following courses or their equivalent.

German 101 Fundamental German-A (5)

German 102 Fundamental German-B (5)

German 203 Intermediate German-A (3)

Intermediate German-B (3) German 204

German 213 Intermediate Reading (2)

German 214 Intermediate Reading (2)

Upper-Division Requirements (12 units) (6 units required from this section)

German 317 Advanced Conversation & Composition (3)

German 315 Introduction to German Civilization (3) or German 325 Current Trends in Culture of German

Speaking Peoples (3)

Plus in consultation with an adviser, choose two additional courses from the following (6 units required):

German 300 German Conversation (3)

German 310 German in the Business World (3)

German 311 German for International Business (3)

German 325 Current Trends in Culture of German-Speaking Spanish 316 Introduction to Spanish-American (6) slope

German 315 Introduction to German Civilization (3)

German 375 Introduction to Literary Forms (3)

German 399 German Phonetics (3)

German 401 Advanced Conversation Practice and

Vocabulary Expansion (3)

BACHELOR OF ARTS IN SPANISH

Basic Requirements (20 units)

Each of the following courses or their equivalent.

Spanish 101 Fundamental Spanish-A (5)

Spanish 102 Fundamental Spanish-B (5)

Spanish 203 Intermediate Spanish-A (3)

Spanish 204 Intermediate Spanish-B (3)

Spanish 213 Intermediate Conversation (2)

Spanish 214 Intermediate Composition (2)

Upper-Division Requirements (33 units) Spanish 416 Contemporary Spanish-American Culture (3) Spanish 430 Spanish Literature to Neoclassicism (3) Literature Emphasis Spanish 441 English 301 Advanced College Writing (3) Spanish 461 Spanish 315 Intro to Spanish Civilization (3) Spanish 316 Introduction to Spanish-American Civilization (3) Literature (3) Spanish 317 Advanced Conversation and Composition (3) Spanish 375 Introduction to Literary Forms (3) Spanish 400 Spanish for Advanced Students and MINOR IN SPANISH Teachers (3) Spanish 430 Spanish Literature to Neoclassicism (3) or Spanish 461 Spanish Literature Since Neoclassicism (3) Spanish 441 Spanish-American Literature (3) 7 M 90/MM Spanish 102 Spanish 466 Intro to Spanish Linguistics (3) Spanish 203 Spanish 467 Dialectology: Current Trends in Modern Spanish 204 Spanish (3) Spanish 213 or Spanish 468 Spanish-English Contrastive Spanish 214 Analysis (3) Plus in consultation with an adviser, choose one from the following electives: Spanish Conversation (3) Spanish 300 Contemporary Spanish Culture (3) Spanish 415 Contemporary Spanish-American Spanish 416 Civilization (3) Culture (3) Spanish Literature to Neoclassicism (3) Spanish 430 Spanish 461 Spanish Literature Since Neoclassicism (3) Spanish 475 Senior Seminar: Topics in Spanish Peninsular Literature (3) Spanish 485 Senior Seminar: Topics in Spanish-American Spanish 300 Literature (3) Spanish 375 Spanish 400 Linguistics Emphasis (33 units required) Spanish 415 English 301 Advanced College Writing (3) Spanish 416 Spanish 315 Introduction to Spanish Civilization (3) Spanish 430 Spanish 316 Introduction to Spanish-American (E) slopes Spanish 441 Civilization (3) Reman Common Common Civilization (3) Spanish 466 Spanish 317 (Advanced Conversation and and 200 asmts) Spanish 467 Dialectology (3) Spanish 468 Composition (3) Spanish 375 Introduction to Literary Forms (3) Spanish 475 Spanish 400 Spanish for Advanced Students and Literature (3) Teachers (3) Spanish 485

Spanish 466 Introduction to Spanish Linguistics (3)

Spanish 467 Dialectology: Current Trends in Modern Each of the following courses or their equivalen (3) hainage

Spanish 468 Spanish-English Contrast Analysis (3)

Plus in consultation with an adviser, choose two (one of which must be literature) from the following electives: EOS daimen?

Spanish 204 Intermedigte S Spanish 300 Spanish Conversation (3)

Spanish 415 Contemporary Spanish Culture (3)

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Spanish-American Literature (3)
           Spanish Literature Since Spanish Literature Since
  Neoclassicism (3) Neoclassicism (3)
Spanish 475 Senior Seminar: Topics in Spanish Peninsular
Spanish 485 Senior Seminar: Topics in Spanish-American
Basic Requirements (20 units) of nontambourd 278 doment
Each of the following courses or their equivalent.
Spanish 101 Fundamental Spanish-A (5)
            Fundamental Spanish-B (5)
                                         French 415
            Intermediate Spanish-A (3)
            Intermediate Spanish-B (3)
            Intermediate Conversation (2) A ACTA donoral
            Intermediate Composition (2) A ACTA donor!
Upper-Division Requirements (12 units)
Six units required from the following.
Spanish 315 Introduction to Spanish Civilization (3)
  or Spanish 316 Introduction to Spanish-American
Spanish 317 Advanced Conversation and
  German 101 Fundamental German-A (5) noitisogmo
Plus in consultation with an adviser, choose two additional up-
per-division courses from the following:
            Spanish Conversation (3) Manual ELS remode
            Introduction to Literary Forms (3)
            Spanish for Advanced Students (3)
            Contemporary Spanish Culture (3)
            Contemporary Spanish-American Culture (3)
            Spanish Literature to Neoclassiciam (3) daily
            Spanish-American Literature (3)
            Introduction to Spanish Linguistics (3)
            Spanish-English Contrastive Analysis (3)
            Senior Seminar: Topics in Spanish Peninsular
            Senior Seminar: Topics in Spanish-American
  Literature (3)
MINOR IN JAPANESE mino require (9 units require
Basic Requirements (20 units)
Each of the following courses or their equivalents:
Japanese 101 Fundamental Japanese-A (5)
Japanese 102 Fundamental Japanese-B (5)
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Japanese 203 Intermediate Japanese-A (5)

Japanese 204 Intermediate Japanese-B (5)

Upper-Division Requirements (12 units) (6 units required from this section)

Japanese 305 Advanced Readings in Japanese I (3) or Japanese 306 Advanced Readings in Japanese II (3) Japanese 315 Introduction to Japanese Civilization (3) or Japanese 316 Modern Japan (3)

Plus, in consultation with an adviser, choose two additional courses from the following and/or from electives to be developed (6 units required:)

Advanced Spoken Japanese (2) Japanese 307 Advanced Spoken Japanese (2)
Advanced Written Japanese (3) Japanese 308

Japanese 310 Japanese for Business (3)

Japanese for International Business (3) Japanese 311

Japanese 410 Classical Japanese (3)

Introduction to Japanese Classical Japanese 430

Literature (3)

Japanese 440 Introduction to Modern Japanese Literature (3)

Japanese 466 Introduction to Japanese Linguistics (3)

Japanese 468 Japanese-English Contrastive Analysis (3)

MINOR IN PORTUGUESE

Basic Requirements (8 units)

Each of the following courses or their equivalent.

Portuguese 101 Fundamental Portuguese-A (4)

Portuguese 102 Fundamental Portuguese-B (4) French 475D Uncerture and Anti-Literature (3)

Upper-Division Requirements (12 units)

Portuguese 317 Advanced Conversation and Composition (3) or Portuguese 310 Portuguese on the Business World (3)

Portuguese 320 Introduction to Luso-Brazilian Culture and Civilization (3)

or Portuguese 325 Contemporary Brazilian Civilization (3)

Grad Seminar: Major Writers (3) Plus in consultation with an adviser, choose two additional courses from the following:

Portuguese 317 Advanced Conversation and Composition (3) or Portuguese 310 Portuguese in the Business World (3)

Portuguese 320 Introduction to Luso-Brazilian Culture and Civilization (3) day year ambibutes at Lassuagust darrail

Portuguese 325 Contemporary Brazilian Civilization (3)

Portuguese 441 Brazilian Literature (3)

CERTIFICATE FOR TEACHERS OF ENGLISH AS A SECOND LANGUAGE

In cooperation with the Departments of English and Linguistics, the Department of Foreign Languages and Literatures offers a Certificate for Teachers of English as a Second Language (TESOL). The program consists of 24 units, some of which (with consent of the admitting committee) may be taken during the candidate's undergraduate study. In order to participate in the program, students must declare the TESOL Certificate along with their degree objective.

Admission Requirements

- 1. Senior standing or admission to either postbaccalaureate or graduate standing.
- 2. Overall GPA of 2.5 (minimal) and 3.0 in the major.
- 3. Completion of English 301 and 303 with grades of B or better.
- 4. At least two years of one foreign language or one year each of two different languages or the equivalent. This requirement will normally be waived for students from foreign countries who have studied English as a foreign language.
- 5. An interview to determine oral proficiency in English at the time of application.
- 6. Consent of the admitting committee to enter the program and to develop a study plan. And wooloom at 202 solvening.

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Required Core Courses

Contrastive Analysis — one of the following:

Spanish 468 Spanish-English Contrastive Analysis (3) or Foreign Language Education 468 TESOL Contrastive Analysis (3)

Methods

(It is highly recommended that French, Spanish, German 466 or Linguistics 406 be taken prior to 443A and B.)

Foreign Language Education 443A Principles of Teaching English to Speakers of Other Languages (3) Foreign Language Education 443B Principles of Teaching English to Speakers of Other Languages (3)

Practicum — one of the following:

For Language Ed 596 TESOL Practicum (fieldwork) (3)

To be taken at the end of the program. Students must consult with an adviser the semester before the practicum. Prerequisites are Foreign Language Education 443A, 443B, Spanish 468 or Foreign Language Education 468. or Ling 596 TESOL Practicum (fieldwork) (3)

scholarship. (A candidate presentili last A which has been All core courses must be completed with a grade of B or better to undertake fieldwork. The basiles in her upon an like parameters.

Electives (12 units required)

(To be completed from each of the following areas of concentration)

English elective (3 units)

English 305 The English Language in America (3) English 490 History of the English Language (3) Foreign Language elective (3 units)

Spanish 466 Introduction to Spanish Linguistics (3)

French 466 Introduction to French Linguistics (3)

German 466 Introduction to German Linguistics (3)

Spanish 467 Dialectology: Current Trends in Modern Spanish (3)

Foreign Language Education 527 Theory of Bilingual Language Acquisition (3)

or an adviser-approved substitute for those who do not have sufficient foreign language prerequisites or whose foreign language is English

Linguistics elective (3 units)

Linguistics 351 Introduction to Linguistic Phonetics and Phonology (3)

Linguistics 403 Speech Language Development (3)

Linguistics 406 Descriptive Linguistics (3)

Linguistics 505 Phonology Analysis (3)

Linguistics 507 Grammatical Analysis (3)

Linguistics 508 Theories of Syntax (3)

Other electives (3 units)

A 400- or 500-level course in one of the elective areas, or student may choose one elective from any of the following: American studies, American literature, American governmental institutions, anthropology, speech communication or other applicable courses in foreign languages and linguistics with the certificate adviser's approval.

MASTER OF ARTS IN FRENCH

Admission to Graduate Standing: Conditionally Classified

University requirements include a baccalaureate from an accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted. See the section of this catalog on admission of graduates for the complete statement and procedures.

Graduate Standing: Classified

A student who meets the requirements for conditionally classified graduate standing, as well as the following requirements may be granted classified graduate standing upon the development of an approved study plan: a major in French consisting of 24 units (or equivalent) of upper-division studies with above-average scholarship. (A candidate presenting a B.A. which has fewer than 24 upper-division units in the language, or is otherwise inadequate, will be required to take additional courses to build a full undergraduate major before beginning the graduate program.) The student must also demonstrate proficiency in English, either by examination or a three-unit upper-division course in English grammar.

Adaptations of certain admission requirements may be made for promising foreign students. The students to be a deligned to the students of t

The study plan consists of 30 units of graduate study (at least 15 in 500-level courses), distributed as follows:

Core Course (3 units)

French 500 Graduate Seminar: Advanced Structure and Style (3)

Linguistics Seminar (3 units)

French 520 Graduate Seminar: Old French (3) or French 530 Graduate Seminar: Historical Linguistics (3)

Literature seminars chosen from the following (9 units)

Graduate Sem: French Poetry (3) French 557

French 571 Graduate Sem: French Prose (3)

French 575 Graduate Sem: French Drama (3)

French 576 Graduate Sem: Major Writers (3)

Additional electives to be chosen in consultation with the graduate adviser (15 units) (A maximum of six units may be taken, with approval of the adviser, in a related field, at the 300-400- or 500level.)

French 407 French Film (3) (8 units) Requirements (8 units)

French 466 Introduction to French Linguistics (3)

French 475A Exploration of the Self (3)

French 475B In Search of the Real (3)

The Individual and Society (3) French 475C

Literature and Anti-Literature (3) French 475D

French 485 Senior Seminar in French Literature (3)

French 520 Graduate Seminar: Old French (3)

French 530 Grad Seminar: Historical Linguistics (3)

Grad Seminar: French Poetry (3) French 557

Grad Seminar: French Prose (3) French 571

Grad Seminar: French Drama (3) French 575

French 576 Grad Seminar: Major Writers (3)

French 598 Thesis (3-6)

French 599 Independent Graduate Research (1-3)

In addition, a candidate must complete a: (1) Bibliographic Project, and (2) Reading Project. Final evaluation is by a comprehensive written and oral examination, including fluency in the French language. The candidate may, with the approval of the graduate committee, repeat the examination, but once only, within two years. (8) engaged and literature (14)

For further information, consult the Department of Foreign Languages and Literatures.

MASTER OF ARTS IN GERMAN

Admission to Graduate Standing: Conditionally Classified

University requirements include a baccalaureate from an accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted. See the section of this catalog on admission of graduates for the complete statement and procedures.

Graduate Standing: Classified

A student who meets the requirements for conditionally classified graduate standing, as well as the following requirements, may be granted classified graduate standing upon the development of an approved study plan: a major in German consisting of 24 units (or equivalent) of upper-division studies with above-average scholarship. (A candidate presenting a B.A. which has fewer than 24 upper-division units in the language, or whose background is otherwise inadequate, normally will be required to take additional courses to build a full undergraduate major before beginning the graduate program.) The student must also demonstrate proficiency in English, either by examination or a threeunit upper-division course in English grammar. Adaptations of certain admission requirements may be made for promising foreign students.

Study Plan

The study plan requires 30 units of graduate study (at least 15 in 500-level courses), distributed as follows:

Core Courses (6 units)

German 500 Graduate Seminar: Advanced Structure and Style or Substitute (3)

German 530 Graduate Seminar: Historical Linguistics or substitute (3) and simple standard and decidence?

Graduate Seminars in Literature (9-12 units)

German 571* Graduate Seminar: German Literature (3) Annual Theory and the destroy Obb onesid

German 576* Graduate Sem: Major Writers (3)

Other Electives (if not taken as an undergraduate) (12-15 units)

German 430 German Literature and Culture to the Baroque (3)

German 440 18th-Century German Literature and

Culture (3)

German 450 19th-Century German Literature and

Culture (3)

German 460 20th-Century German Literature and Culture (3)

German 482 German Literature and Culture in Film (3) Senior Seminar in German Literature (3)

German 485° German 485 Senior Senio

German 598 Thesis (3-6)

German 599 Independent Graduate Research (1-3)

With the approval of the graduate committee, a student may substitute a thesis for some of the units required under "Other Electives." A reading list must be covered by all students. Final evaluation is by a comprehensive written and oral examination, including fluency in the German language. The candidate may, with the approval of the graduate committee, repeat the examination, but once only, within two years.

For further information, consult the Department of Foreign Languages and Literatures.

MASTER OF ARTS IN SPANISH

Admission to Graduate Standing: Conditionally Classified

University requirements include a baccalaureate from an accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted. See the section of this catalog on admission of graduates for the complete statement and procedures.

Candidates will need a B.A. in Spanish consisting of at least 24 units (or equivalent) of upper-division studies with above average scholarship. (A candidate presenting a bachelor of arts which has fewer than 24 upper-division units in the language, or whose background is otherwise inadequate, will be required to take additional courses to build a full undergraduate major before beginning the graduate program.) The student must also demonstrate proficiency in English, either by examination or a threeunit upper-division course in English grammar.

Students selecting the Bilingual Studies option may have a B.A. in a related field with at least 18 units of upper-division Spanish with a minimum GPA of 3.0, AND one of the following:

six additional units of 400-level Spanish courses with a minimum GPA of 3.0;

or six units of approved 400-level Chicano Studies or Latin American Studies courses with a minimum GPA of 3.0:

or successful completion of placement examination testing knowledge of Hispanic literature, language and culture. 284 dams

Satisfactory evaluation of language proficiency by committee is also required. Adaptations of certain admission requirements may be made for promising foreign students.

Graduate Standing Classified

A student who meets the requirements for conditionally classified graduate standing is eligible for classified graduate standing upon the development of an approved study plan, which should be done in consultation with the graduate advisor prior to the completion of nine graduate units.

The study plan consists of 30 units of graduate study (at least 15 in 500-level courses), distributed as follows:

Variable topic course may be taken again for credit.

Spanish: Standard Plan

Core Courses (6 units)

Spanish 500 Graduate Seminar: Advanced Structure and Style or substitute (3)

Spanish 530 Graduate Seminar: Historical Linguistics (3)

Graduate Seminars in Literature (9 units)

Courses in both Peninsular and Spanish-American literature chosen from the following:

Grad Sem: Spanish Poetry (3) Spanish 556

Spanish 557 Grad Sem: Spanish-American Poetry (3) Spanish 567 Grad Sem: Spanish-American Novel (3)

Grad Sem: Spanish Prose (3) Spanish 571 Grad Sem: Spanish Drama (3) Spanish 575 Spanish 576 Grad Sem: Hispanic Topics (3)

Other Electives (15 units)

Courses may be chosen from the following 400- or 500-level courses (up to 6 of the 15 units may be taken, with the approval of the adviser, in a related field):

Spanish 415 Contemporary Spanish Culture (3)

Contemporary Spanish-American Spanish 416

Culture (3)

Spanish 430 Spanish Literature to Neoclassicism (3)

Spanish 441 Spanish-American Literature (3)

Spanish 461 Spanish Literature Since

Neoclassicism (3)

Spanish 466 Introduction to Spanish Linguistics (3)

Spanish 467 Dialectology (3)

Spanish-English Contrastive Analysis (3) Spanish 468

Spanish 475 Senior Seminar: Topics in Spanish Peninsular Literature (3)

Spanish 485 Senior Seminar: Topics in Spanish-American Literature (3)

Spanish 556 Graduate Seminar: Spanish Poetry (3)

Graduate Seminar: Spanish-American Spanish 557

Poetry (3)

Spanish 567 Graduate Seminar: Spanish-American

Novel (3)

Spanish 571 Graduate Seminar: Spanish Prose (3)

Graduate Seminar: Spanish Drama (3) Spanish 575

Spanish 576 Graduate Seminar: Hispanic Topics (3)

Spanish: Bilingual Studies Emphasis

Core Courses (6 units)

Spanish 500 Graduate Seminar: Advanced Structure and Style or equivalent (3)

FL Ed 527 Theory of Bilingual Acquisition (3)

Literature Courses (9 units, 6 of which must be at 500-level) chosen from the following. Must include one course in Peninsular literature and one in Spanish-American literature.

Spanish 430 Spanish Literature to Neoclassicism (3)

Spanish 441 Spanish-American Literature (3)

Spanish 461 Spanish Literature Since (1997)

Scholarship, (A candidate presenting a B (3) mississions

Spanish 475 Senior Seminar: Topics in Spanish Peninsular Literature (3)

Spanish 485 Senior Seminar: Topics in Spanish-American Literature (3) The students and Comergory atsubary and agriculture

Spanish 556 Graduate Seminar: Spanish Poetry (3)

Spanish 557 Graduate Seminar: Spanish-American Poetry (3) sol shear ad general desireparations in the mistrace

Spanish 567 Graduate Seminar: Spanish-American Novel (3)

Graduate Seminar: Spanish Prose (3) Spanish 571

Graduate Seminar: Spanish Drama (3) Spanish 575

Spanish 576 Graduate Seminar: Hispanic Topics (3)

Culture Courses (9 units, 3 of which must be at 500-level) chosen from the following:

Spanish 415 Contemporary Spanish Culture (3)

Spanish 416 Contemporary Spanish-American German 5306) Gridvere Schnink Historical L

Culture (3)

Spanish 576 Graduate Seminar: Hispanic Topics (3)

Chicano 403 Cultural Differences in Mexico and the Southwest (3)

Chicano 431 The Chicano Child (3)

The Chicano Adolescent (3) Chicano 432

Chicano 440 Mexican Intellectual Thought (3)

Chicano 445 History of the Chicano (3)

Chicano 450 The Chicano and Contemporary Other Electives (iffuot stales as an undergradults).

Issues (3)

Chicano 453 Mexico Since 1906 (3)

Electives (6 units) and the automatic named 084 named

Linguistics (3 units) chosen from the following: Depoted

Spanish 466 Introduction to Spanish Linguistics (3)

Spanish 467 Dialectology: Current Trends in Modern

Spanish (3)

Spanish 468 Spanish-English Contrastive Analysis (3)

Spanish 530 Graduate Seminar: Historical

Cerman 482 Cerman Literature and Culture (3)

Other (3 units) chosen in consultation with adviser. May be in a related field.

With the approval of the graduate committee, a student may substitute a thesis for some of the units required under "Electives." A reading list must be covered by all students. Final evaluation is by a comprehensive written and oral examination, including fluency in the Spanish language. The candidate may, with the approval of the graduate committee, repeat the examination, but once only within two years. For further information, consult the Department of Foreign Languages and Literatures.

MASTER OF SCIENCE IN EDUCATION CONCENTRATION IN TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES

This program is multi-disciplinary, involving study in the fields of English, linguistics, language acquisition, anthropology and professional education in order to provide the candidate with the requisite knowledge for success as an ESL teacher, resource specialist or program coordinator. Thirty units are required.

Admission to Graduate Standing: Conditionally Classified

University requirements include: a baccalaureate degree from an accredited institution with a grade-point average of at least 2.5 in the last 60 semester units attempted (see "Graduate Regulations," for complete statement and procedures). In addition, the candidate must have a 3.0 grade-point average in the major.

Prerequisites and analogoidodored bas attelligadi-acoos the

- 1. Two years of one foreign language, or one year each of two foreign languages with an average 3.0 GPA;
- 2. English 301 and 303 with a grade of B or better;
- 3. One of the following: English 300, 311, 312, 321, 322 or an equivalent survey of English or American literature with a grade of B or better; of the modern of land to borden
- 4. Linguistics 406 with a grade of B or better;
- 5. Oral and written proficiency in English to be determined at time of application.

Core Courses (15 units)

FL Ed 443A Principles of Teaching English to Speakers of Other Languages (emphasis on aural/oral language) (3)

FL Ed 443B Principles of Teaching English to Speakers of Other Languages (3) (emphasis on reading and written language)

Theory of Bilingual Language Acquisition (3) FL Ed 527

FL Ed 560 Second Language Assessment (3)

FL Ed 595 Curriculum and Program Design for TESOL (3)

Electives (12 units required)

Choose courses from at least three of the following four categories (no more than six units may be chosen from 300-level and three units must be from 500-level course):

Culture

American Studies 301 The American Character (3) American Studies 345 American Dream (3) Anthro/Linguistics 300 Language and Culture (3) Anthro 360 Contemporary American Culture (3)

Anthro 450 Culture and Education (3)

Linguistics

French, German, Spanish 466 Introduction to French, German or Spanish Linguistics (3)

FL Ed 468 TESOL Contrastive Analysis (3)

Spanish 468 Spanish-English Contrastive Analysis (3)

Linguistics 351 Introduction to Linguistic Phonetics and Phonology (3) (5-1) married at 1 miles 18-61-10-bur 2 004

Linguistics 436 Changing Words (3)

Linguistics 505 Phonological Analysis (3)

Linguistics 507 Grammatical Analysis (3)

Linguistics 508 Theories of Syntax (3)

Linguistics 580 Special Topics in Linguistics (3) (subject to adviser's approval of topics)

English and Speech Communication

English/Ling 305 The English Language in America (3)

English 490 History of the English Lang (3)

A 400-or 500-level English or American Literature or language course (3)

Speech Comm 320 Intercultural Communication (3)

Professional Education

Ed Elem 529 Graduate Studies: Learning Theory for Classroom Use (3)

Ed Elem 530 Graduate Studies in Elementary Education: Second Languages (3)

Ed Elem 542 Current Issues and Problems in Bilingual-Bicultural Education (3)

FL Ed 545 Teaching Culture in the Language Classroom (3)

Psychology 311 Educational Psychology (3) Reading 480 The Teaching of Reading (4)

Reading 581 Remediation of Reading Difficulties (4)

Culminating Experience

FL Ed 596 Practicum (part entails a written and oral comprehensive examination) (3)

For further information, contact the TESOL graduate program adviser in the Department of Foreign Languages and Literatures.

Foreign Language Courses

196 Student-to-Student Tutorials (1-3) See index.

198 Programmed Courses in Uncommonly Taught Languages (1-3)

Intensive individualized programmed instruction in specific languages other than those regularly offered, such as Turkish. To develop the skills of auditory comprehension and speaking in the language to form a basis for later development of the reading and writing skills. A minimum of 3 hours per week in the learning laboratory and regular sessions with native informants are required for each unit of credit. May be repeated for credit.

495 Internship in Foreign Languages (3)

Prerequisites: The 310 and 311 course in the appropriate language and consent of instructor. Supervised field experience in multinational businesses locally or abroad. Daily use of a foreign language on the job and concurrent enrollment in a School of Business internship are required. Credit/No Credit Course.

496 Student-to-Student Tutorials (1-3) See index.

Foreign Language Education Courses

099 Developmental Writing
(Same as English 099)

105A,B English as a Second Language (4)

English for non-native speakers. Practice in listening comprehension, speaking, reading and writing to improve control of the basic sounds and structures of English. Language laboratory assignments are included. (Same as Linguistics 105A,B)

300 Advanced Conversation for Non-Native Speakers of English (3)

Detailed analysis of pronounciation, phonological patterns and sentence structures in English for speakers of other languages. Systematic, intensive expansion of conversational skills in American everyday and university cultural settings with comparison of values in native speech community.

442 Teaching Foreign Languages in the Secondary School (3)

Prerequisites: French, German or Spanish 466; and admission to teacher education or consent of instructor. Principles, methods and materials of language learning and teaching. Includes lectures, activities and fieldwork. Required before admission to student teaching.

443A Principles of Teaching English to Speakers of Other Languages (3)

Prerequisite: French, German or Spanish 466 or Linguistics 406. Recent trends, including the expanded use of electromechanical aids, programmed instruction and applied linguistics in the teaching of English to speakers of other languages. Techniques related to auditory comprehension and oral production of English. (Same as Linguistics 443A)

443B Principles of Teaching English to Speakers of Other Languages (3)

Prerequisite: French, German or Spanish 466 or Linguistics 406 and FL-Ed 443A. Recent trends, including the use of electromechanical aids, programmed instruction, and applied linguistics in the teaching of English to speakers of other languages. Techniques related to the reading and writing of English. (Same as Linguistics 443B)

449E Externship in Secondary Teaching (3)

See description under Department of Secondary Education.

449I Internship in Secondary Teaching (10) 8 10 SHTEA

See description under Department of Secondary Education.

449S Seminar in Secondary Teaching (2)

See description under Department of Secondary Education.

468 TESOL Contrastive Analysis (3)

Prerequisites: junior standing or above, successful completion of Spanish, French or German 466 and at least one 400-level Linguistics class. Theory and performance techniques for contrasting phonological, grammatical and lexical structures of English and three selected world languages.

527 Theory of Bilingual Language Acquisition (3)

Prerequisites: Spanish, French or German 466 and Spanish 468 or FL-Ed 468 or Linguistics 406 and consent of instructor. Methodology for research in bilingual language acquisition and development; socio-linguistic and psycholinguistic patterns in bilingualism; interactions of language and culture in the language acquisition process.

545 Teaching Culture in the Language Classroom (3)

Prerequisite: FL-Ed 443A,B or consent of instructor. Provides a framework for teaching culture and value systems in the second language classroom. Emphasis on teaching patterns of culture, methods of cultural comparison, audiovisual materials and textbook evaluation.

560 Second Language Assessment (3)

Prerequisites: FL-Ed 442 or 443A, B or equivalent. Theories, issues, basic statistical concepts in second language testing and techniques for second language assessment. Practice in analyzing commercial language tests and in constructing tests for classroom use.

595 Curriculum and Program Design for TESOL (3)

Prerequisite: FL-Ed 443A,B. Curriculum and program design for TESOL, including such factors as classroom management systems, appropriate selection and/or design of program materials.

596 TESOL Practicum (3)

Prerequisites: completion of the appropriate program core courses (TESOL Certificate or M.S. Education-TESOL) and consent of instructor or advisor. Teaching English to Speakers of other languages at Cal State Fullerton or in local schools. Supervised by instructor and supervisors. Seminar meetings by arrangement. May be repeated for credit.

599 Independent Graduate Research (1-3)

Prerequisites: graduate standing and consent of instructor. Supervised research projects in teaching English to speakers of other languages (TESOL). May be repeated for credit.

Chinese Courses

100 Introduction to Chinese Conversation (3)

Introduction to spoken Mandarin Chinese, with emphasis on vocabulary development, use of common phrases and sentences. and culturally appropriate language at beginning levels. Conducted mainly in Chinese.

101 Fundamental Chinese — A (5)

Practice in listening comprehension, speaking, reading and writing to develop control of the sounds and the basic structure of Chinese. Audiolingual assignments in the language laboratory. Conducted in Chinese.

102 Fundamental Chinese — B (5)

Prerequisite: Chinese 101 or equivalent. Practice in listening comprehension, speaking, reading and writing to develop control of the sounds and the basic forms and structure of Chinese. Audiolingual assignments in the language laboratory. Conducted in Chinese. Jagoron backet scheden A. world estishipering so

203 Intermediate Chinese — A (5)

Prerequisite: Chinese 102 or equivalent. Instruction in listening, speaking, reading, and writing of modern Chinese language at the intermediate level.

204 Intermediate Chinese — B (5)

Prerequisite: Chinese 203 or equivalent. Instruction in listening, speaking, reading, and writing of modern Chinese. Conducted in Chinese.

299 Directed Study (1-3)

Prerequisite: Chinese 102 or equivalent. Supervised study projects in Chinese language or literature to be taken with consent of instructor and department chair. May be repeated for credit.

French Courses

101 Fundamental French — A (5)

Practice in listening comprehension, speaking, reading and writing to develop control of the sounds and the basic forms and structure of French. Audiolingual assignments in the language laboratory. Conducted in French.

102 Fundamental French — B (5)

Prerequisite: French 101 or equivalent. Practice in listening comprehension, speaking, reading and writing to develop control of the sounds and basic structure of French. Assignments in the language laboratory. Conducted in French.

103 Intensive Review of Fundamental French (5)

Prerequisite: Two or three years of high school French or equivalent. Intensive review of fundamental skills leading to communicative competency in French: comprehending basic messages, conversing about everyday situations, reading, writing simple essays and descriptions, interacting successfully with members of French-speaking cultures. Conducted in French.

203 Intermediate French — A (3)

Prerequisite: French 102 or equivalent. Practice in speaking, understanding, reading, and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. Conducted in French.

204 Intermediate French — B (3)

Prerequisite: French 203 or equivalent. Practice in speaking, understanding, reading and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. Conducted in French.

230 Intermediate Diction and Phonetics (2)

Practice in oral delivery of cultural and literary materials. Analysis of individual problems in pronounciation. May be taken concurrently with French 203. Conducted in French.

240 Intermediate Conversation and Composition (2)

Prerequisite: French 203 or equivalent. Discussion and practice in written expression based on cultural and literary materials. May be taken concurrently with French 204. Conducted in

300 French Conversation (3)

Prerequisite: French 204 or equivalent. Development of oral control of the language through discussions, oral presentations and dialogues. Vocabulary development in areas of student concerns. Conducted in French.

310 French in the Business World (3)

Prerequisite: French 204 or consent of instructor. Designed to give students a working knowledge of business language (oral and written) in the French-speaking world. Emphasis on cultural and sociological contexts of business procedures. Analysis of appropriate current periodicals. Conducted in French.

311 French for International Business (3)

Prerequisite: French 204 or consent of instructor. Designed to give students experience in reading comprehension and analysis of materials dealing with economic and political realities in the French-speaking world. Analysis of appropriate current periodicals. Conducted in French.

315 Origins of Modern France (3)

Prerequisite: French 204 or equivalent. The social, intellectual and artistic origins of French civilization: feudal society becoming the ancien régime; the medieval world-view transformed by the Renaissance. Literary selections in modern French translation. Conducted in French.

317 Advanced Composition and Grammar (3)

Prerequisite: French 204 or equivalent. Free oral and written expression. Conducted in French.

318 Advanced Composition and Grammar (3)

Prerequisite: French 204 or equivalent. The control of French as an instrument for free oral and written expression. Conducted in French.

Preruquisites French, 102 or 325 Contemporary French Civilization (3)

Prerequisite: French 204 or equivalent. Reading and discussion to develop understanding of the social and intellectual problems, trends, and contributions of present-day France. Strenghthening facility in the language. Conducted in French.

375 Introduction to Literature (3)

Prerequisite: French 204 or equivalent. The nature of human language, the literary creation, reading, and what critics are able to say about literary works. Reading and discussion of some typical, mainly contemporary, texts. Conducted in French.

385 Techniques of French-English Translation (3)

Prerequisites: French 317 or consent of instructor. An overview of theories of translation; examination of several types and examples of translation (technical to literary). Major emphasis on actual translation from English to French and French to English.

407 French Film (3)

Prerequisite: French 317 or 318 or consent of instructor. The developing art of the French film, with special emphasis on the many roles of language. Subjects treated include: montage, visual/verbal meaning, literary/cinematic narrative, non-realistic language, read language, non-narrative continuity. Conducted in French.

415 French Classicism (3) 2000 to 400 Abnor Leaning and

Prerequisites: French 317 and 375. The decisive moment in French experience. Focus on literature of the Classic period (1660-1685) but open at both ends to include the formation and perenniality of French Classicism. Conducted in French.

425 French Romanticism (3)

Prerequisites: French 317 and 375. The revolution in feeling and intellect in 19th-century France. The Romantic period (1820-1850). May include material preceding or following those dates. cals. Conducted in French. (E) arguin Conducted in French.

466 Introduction to French Linguistics (3)

Prerequisite: French 317 or 318. Analytical procedures of general linguistics applied to French. Structural contrasts between French and English. The application of linguistic analysis to the teaching of modern foreign languages.

475A,B,C,D Seminar in 20th-Century
French Literature (3,3,3,3)

Prerequisites: French 315, 317, 375, and 415 or 425. If 415 or 425 has not been completed, one must be taken concurrently. The study of 20th-century French literature organized around four major themes. Conducted in French.

475A Exploration of the Self (3)

See prerequisites above. Search for identity and the guest for personal authenticity. The role of the conscious and unconscious mind and of artistic creativity. Proust, Gide, Mauriac, Valéry, as to develop control of the sounds and the basic structur. at himse. Audiolingual assignments in the language laborator

475B In Search of the Real (3)

See prerequisites above. The surrealist revolt against bourgeois logic, mores and literature. From Dada to automatic writing to Revolution to l'amour fou. Includes precursors and kindred spirits (e.g. Lautréamont, Jarry). of the sounds and the basic forms and structure of Chines

475C The Individual and Society (3)

See prerequisites above. Attitudes toward personal freedom; the existential sense of responsibility toward one's fellows. Saint-Exupéry, Malraux, Sartre, Camus, etc. 140 etablemental 805

Prerequisite: Chinese 102 or equivalent, Instruction in listening,

475D Literature and Anti-Literature (3)

See prerequisites above. In the period since World War II French writers have not only transformed the traditional genres (as in the New Theatre, the New Novel and the New Criticism of the 1950s and 1960s) but have contested the institution of literature speaking, reading, and writing of modern Chinese. Conductilesti

485 Senior Seminar in French Literature (3)

Prerequisites: French 315, 317, 375, and senior standing. A literary current, period, author, genre or problem. Subject will change each time course is given. May be repeated for credit. Conducted in French.

499 Independent Study (1-3)

Supervised projects in French language or literature. Consent of the instructor and department chair required. May be repeated for credit.

500 Graduate Seminar: Advanced Structure and Style (3)

Prerequisite: consent of instructor. The course is devoted to (1) a comparative analysis of English and French linguistic structures systematically applied in exercises and translations, and (2) analysis of style in French by distinguishing between niveaux de langue and learning to identify specific styles in a variety of literary and non-literary texts. Conducted in French.

102 Fundamental French - B (5)

520 Graduate Seminar: Old French (3)

Prerequisite: consent of instructor. Readings in the medieval literature of northern France. A variety of dialects and centuries. Conducted in French. The Large ball of the Conducted in French.

530 Graduate Seminar: Historical Linguistics (3)

Prerequisites: French 466 or consent of instructor. Some previous study of Latin recommended. Introduction to the principles of historical linguistics. Primary emphasis on the transformation of classical Latin (phonology, morphology, syntax and lexicon) into contemporary French. Conducted in French.

557 Graduate Seminar: French Poetry (3)

Prerequisite: consent of instructor. Conducted in French.

571 Graduate Seminar: French Prose (3)

Prerequisite: consent of instructor. Conducted in French.

575 Graduate Seminar: French Drama (3)

Prerequisite: consent of instructor. A chronological overview of French drama. This course also treats, in each period, relationships between society, dramatic and theatrical forms, typical thematic content of plays, and the social role of theatre. Conducted in French.

485 Senior Senioar in German Literatur 576 Graduate Seminar: Major Writers (3)

Prerequisite: consent of instructor. May be repeated for credit. Conducted in French.

598 Thesis (3-6)

Prerequisite: recommendation of student's graduate committee.

599 Independent Graduate Research (1-3)

Prerequisites: fluency in French and consent of instructor. Supervised research projects in French language or literature. May be repeated for credit. What because A manufact and both Prerequisite: consent of instructor, Conducted in Sernal. ee

German Courses

101 Fundamental German — A (5)

Practice in listening comprehension, speaking, reading and writing to develop control of the sounds and the basic forms and structures of German. Audiolingual assignments in the language laboratory. 576 Conducte Sendman Major Written (3) nimes

102 Fundamental German — B (5)

Prerequisite: German 101 or equivalent. Practice in listening comprehension, speaking, reading, and writing on a basic level. Audiolingual assignments in the language laboratory.

103 Intensive Review of Fundamental German (5)

Prerequisite: Two years high school German. Review of skills leading to communicative competencies enabling students to comprehend simple messages and directives, converse on everyday topics, read authentic basic materials, write simple messages and descriptions, and interact successfully with members of target culture. Conducted in German.

203 Intermediate German — A (3)

Prerequisite: German 102 or equivalent. Practice in speaking, understanding, reading, and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. Conducted in German.

204 Intermediate German — B (3)

Prerequisite: German 203 or equivalent. Practice in speaking, understanding, reading and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. Conducted in German.

213 Intermediate Reading (2)
Prerequisite: German 102 or equivalent. Reading comprehension development. Required for major and minor. May be taken concurrently with German 203. Conducted in German.

repeated for credit; but may count only o 214 Intermediate Reading (2)

Prerequisite: German 203 or equivalent. Continuation of German 213. Reading comprehension development. Required for major and minor. May be taken concurrently with German 204. Conducted in German, Conducted

300 German Conversation (3)

Prerequisite: German 204 or equivalent. Development of oral control of the language in the context of students' own or contemporary concerns. Conducted in German.

310 German in the Business World (3)

Prerequisite: German 204 or consent of instructor. Designed to give students a working knowledge of business language in the German-speaking world. Emphasis on business correspondence, conversation between business partners and the language of advertising. Conducted in German.

311 German for International Business (3)

Prerequisites: German 204; 310 recommended. Emphasis on building vocabulary of the German business world and overview of the German economy and business practices. Intensive work on grammatically correct writing, aural and reading comprehension and conversation. Learning techniques will include computer assisted instruction and taped interviews. Conducted in German. O (material carly Roman carly Boman and Street, Classicism, early Roman and Street, Roman and

315 Introduction to German Civilization (3)

Prerequisite: German 204 or equivalent. Open to lower-division students with consent of instructor. Readings and discussions in German literature, arts and institutions to develop insights into German culture, while strengthening facility with the language. Conducted in German.

317 Advanced Conversation and Composition (3)

Prerequisite: German 204 or equivalent. Open to lower-division students with consent of instructor. Free oral and written expression. Conducted in German.

325 Current Trends in Culture of German-

Speaking Peoples (3)

Prerequisite: German 204 or equivalent. Open to lower-division students with consent of instructor. Readings and discussion of German contributions to present-day civilization while strengthening facility with German language. Conducted in German.

375 Introduction to Literary Forms (3)

Prerequisite: German 317 or consent of instructor. The principal literary forms, prose fiction, poetry, drama and the essay and the major concepts of literary techniques and criticism. Analysis and interpretation of various texts. Conducted in German.

399 German Phonetics (3)

Prerequisite: intermediate competency. Analysis of students' pronunciation and intensive practice of phonetic patterns including intonation. Development of conversational competency. May be repeated for credit; but may count only once toward German major.

401 Advanced Conversation Practice and Vocabulary Expansion (3)

Prerequisite: German 317 or consent of instructor. Intensive oral practice with emphasis on vocabulary expansion. Conducted in 300 German Conversation (3) German.

417 Advanced Writing and Composition (3)

Prerequisite: German 317 or consent of instructor. Practice in writing on various topics in detail, in expressing hypotheses and presenting arguments or points of view accurately and effectively. Emphasis on development differences of formal and informal style. Conducted in German.

430 German Literature and Culture to the Baroque (3)

Prerequisites: German 315, 317 and 375, or consent of instructor. Masterpieces of German literature from the Hildebrandslied to Der Abenteuerliche Simplicissimus and their relationship to cultural, historical and intellectual developments between ca. 800-1670 A.D. Conducted in German.

440 18th-Century German Literature and Culture (3)

Prerequisites: German 315, 317 and 375, or consent of instructor. The principal authors and movements (Enlightenment, Storm and Stress, Classicism, early Romanticism) of the 18th century. Conducted in German.

450 19th-Century German Literature and Culture (3)

Prerequisites: German 315, 317 and 375, or consent of instructor. 19th-century German literature from Romanticism to Naturalism. Decisive philosophic, political and economic influences. Conducted in German.

460 20th-Century German Literature and Culture (3)

Prerequisites: German 315, 317, 375, or consent of instructor. Major German prose, drama and poetry of the 20th century. Conducted in German.

462 Cultural and Educational Policies in Germany (3)

Prerequisite: two years of teaching experience. An exploration in the cultural and educational policies in Germany. Format: a minimum of 15 hours a week will be spent in lecture-discussion, 5 hours in demonstrations, and 10 hours in fieldwork.

466 Introduction to German Linguistics (3)

Prerequisite: German 317 or consent of instructor. Analytical procedures of general linguistics as applied to German. Structural contrasts between German and English. The application of linguistic analysis to the teaching of modern foreign languages.

482 German Literature and Culture in Film (3)

Prerequisite: advanced standing in literature or consent of instructor. A critical study of literary works and their film adaptations. Significant works of German literature will be analyzed and compared in both art forms. May be repeated for credit with different film syllabus. Too and has swall to instruction of the syllabus.

485 Senior Seminar in German Literature (3)

Prerequisite: senior standing in German. Research and discussion of a literary movement, a genre or an author. Subject varies and is announced in the class schedule.

499 Independent Study (1-3)

Supervised research projects in German language or literature to be taken with consent of instructor and department chair. May be repeated for credit.

500 Graduate Seminar: Advanced Structure and Style (3) Prerequisite: consent of instructor. Conducted in German.

530 Graduate Seminar: Historical Linguistics (3)

Prerequisite: German 466 or consent of instructor. Conducted in German.

German Courses

571 Graduate Seminar: German Literature (3)

Prerequisite: consent of instructor. Subject will vary and will be announced in the class schedule. May be repeated for credit with a different topic. Conducted in German.

576 Graduate Seminar: Major Writers (3)

Prerequisite: consent of instructor. Subject will vary and will be announced in the class schedule. May be repeated for credit with a different topic. Conducted in German.

598 Thesis (3-6)

Prerequisite: recommendation of student's graduate committee. Prerequisite: Two years high school German. Review of skills

599 Independent Graduate Research (1-3)

Prerequisites: fluency in German and consent of instructor. Supervised research projects in German language or literature. May be repeated for credit.

Greek Courses

101 Fundamental Greek — A (3)

Practice to develop a reading knowledge and a writing ability in ancient Greek. Biblical texts.

102 Fundamental Greek — B (3)

Prerequisite: Greek 101 or equivalent. Practice to develop a reading knowledge and a writing ability in ancient Greek. Biblical texts.

299 Directed Study (1-3)

Prerequisite: Greek 102 or equivalent. Supervised study projects in Greek language or literature to be taken with consent of instructor and department chair. May be repeated for credit.

Hebrew Courses

101 Fundamental Hebrew — A (4)

Practice in listening comprehension, speaking, reading and writing Hebrew (same as Religious Studies 101).

102 Fundamental Hebrew — B (4)

Prerequisite: Hebrew 101. Practice in listening comprehension, speaking, reading and writing Hebrew (Same as Religious Studies 102).

299 Directed Study (1-3)

Prerequisite: Hebrew 102 or equivalent. Supervised study projects in Hebrew language or literature to be taken with consent of instructor and department chair. May be repeated for credit.

Italian Courses

101 Fundamental Italian - A (4)

Practice in listening comprehension, speaking and writing of Italian. Audiolingual assignments in the language laboratory. Conducted in Italian.

102 Fundamental Italian — B (4)

Prerequisite: Italian 101 or equivalent. Practice in listening comprehension, speaking, reading and writing of Italian. Audiolingual assignments. Conducted in Italian.

299 Directed Study (1-3)

Prerequisite: Italian 102 or equivalent. Supervised study projects in Italian language or literature to be taken with consent of instructor and department chair. May be repeated for credit.

Japanese Courses

100 Introduction to Japanese Conversation (3)

Introduction to spoken Japanese, with emphasis on vocabulary development, use of common phrases and sentences, and culturally appropriate language at beginning levels. Conducted mainly in Japanese.

101 Fundamental Japanese — A (5)

Practice in listening comprehension, speaking and writing of Japanese. Audiolingual assignments in the language laboratory. Conducted in Japanese.

102 Fundamental Japanese — B (5)

Prerequisite: Japanese 101 or equivalent. Practice in listening comprehension, speaking, reading and writing of Japanese. Audio-Lingual assignments in the language laboratory. Conducted in Japanese.

103 Intensive Review of Fundamental Japanese (5)

Prerequisites: two years of high school Japanese or equivalent to Japanese 101 or 102. Intensive review of fundamental skills leading to communicative competency in Japanese; comprehending basic messages, conversing about everyday situations, reading, writing simple essays and descriptions, interacting successfully with members of Japanese-speaking cultures. Conducted mostly in Japanese.

110 Japanese Writing and Calligraphy (3)

Prerequisite: Japanese 102 or equivalent. Study of the nature and composition of two Japanese writing systems, Hiragana and Kanji.

203 Intermediate Japanese — A (5)

Prerequisite: Japanese 102 or equivalent. Instruction in reading, writing, speaking, and comprehending of modern Japanese. Conducted in Japanese.

204 Intermediate Japanese — B (5)

Prerequisite: Japanese 203 or equivalent. Instruction in reading, writing, speaking and comprehending of modern Japanese. Conducted in Japanese.

299 Directed Study (1-3)

Prerequisite: Japanese 102 or equivalent. Supervised study projects in Japanese language or literature to be taken with consent of instructor and department chair. May be repeated for credit.

305 Advanced Japanese — A (3)

Prerequisite: Japanese 204 or equivalent. Practice in listening comprehension, speaking, reading and writing of advanced Japanese in the context of contemporary concerns.

306 Advanced Japanese — B (3)

Prerequisites: Japanese 305 or equivalent. Practice in listening comprehension, speaking, reading and writing of Japanese in the context of contemporary concerns.

307 Advanced Spoken Japanese (2)

Prerequisite: Japanese 204. Emphasis on the spoken aspect of advanced Japanese through dialogs, discussions and oral presentations in the context of contemporary concerns. Conducted in Japanese.

308 Advanced Written Japanese (3)

Prerequisite: Japanese 204. Emphasis on the written aspect of advanced Japanese through expanding knowledge of vocabulary and Kanji. Conducted in Japanese.

310 Japanese for Business (3)

Prerequisites: Japanese 204 or consent of instructor. Designed to acquaint the student with the practical vocabulary and structure of business language, as well as the cultural background of business procedures in the Japanese business world. Conducted mainly in Japanese.

311 Japanese for International Business (3)

Prerequisites: Japanese 204 or consent of instructor. Acquisition of vocabulary and language structures for Japanese in the international business world and related economic situations. Emphasis on comprehension of business terminology through conversation, reading, and writing. Conducted mainly in Japanese.

315 Introduction to Japanese Civilization (3)

Prerequisite: Japanese 204 or equivalent or consent of instructor. Readings and lectures in Japanese literature, arts, and institutions from earliest history to 1868, to develop insights into Japanese culture while strengthening facility in the language. Conducted in Japanese.

316 Modern Japan (3)

Prerequisites: Japanese 204 and 315 or consent of instructor. Readings and lectures in Japanese literature, arts, and institutions from 1868 to the present, to develop insights into Japanese culture while strengthening facility in the language. Conducted in Japanese.

375 Introduction to Literary Forms (3)

Prerequisite: Japanese 306 or consent of instructor. Introduction to literary forms and concepts of literary techniques. Analysis and interpretation of various texts. Conducted in Japanese.

410 Classical Japanese (3) http://doi.org/10.000/10.0000

Prerequisite: Japanese 306 or equivalent. Designed to acquaint the student with classical Japanese grammar in preparation for reading classical Japanese literature. Conducted in Japanese.

430 Introduction to Japanese Classic Literature (3)

Prerequisites: Japanese 375 and 410 or consent of instructor. The literary use of language, literary creation, reading, and critical evaluation of literary works. Reading excerpts of major classics with lectures on literary trends of each historical period. Conducted in Japanese.

440 Introduction to Modern Japanese Literature (3)

Prerequisite: Japanese 375 or consent of instructor. The literary use of language, literary creation, reading, and critical evaluation of literary works. Reading excerpts of modern Japanese literary works with lectures on different trends of various schools. Conducted in Japanese.

466 Introduction to Japanese Linguistics (3) manhauf 201

Prerequisite: Japanese 306 or equivalent. The analytical procedures of general linguistics as applied to phonological, semantic, morphological, syntactic and discourse aspects of Japanese. Conducted in Japanese.

468 Japanese-English Contrastive Analysis (3)

Prerequisite: Japanese 306 and 466 (may be taken concurrently) or equivalent. Contrastive analysis of phonological, lexical, syntactic and discourse aspects of Japanese and English. Conducted in Japanese to provide advanced training in the language.

485 Senior Seminar: Variable Topics in Japanese (3)

Prerequisite: Japanese 375 and at least one 400-level course in Japanese or consent of instructor. Research and discussion of a cultural, literary or linguistic theme. Subject varies and is announced in the class schedule. May be repeated for credit with a different topic. Conducted in Japanese. Variable topics include: The Japanese Newspaper; The Study of the Tale of Genji; The Study of Yukio Mishima.

Latin Courses

101 Fundamental Latin - A (4) 000 words H restauperent

Practice to develop a reading knowledge and a writing ability in Latin. Modern techniques of language instruction will be applied.

102 Fundamental Latin — B (4)

Prerequisite: Latin 101 or equivalent. Practice to develop a reading knowledge and a writing ability in Latin. Modern techniques of language instruction will be applied.

299 Directed Study (1-3)

Prerequisite: Latin 102 or equivalent. Supervised study projects in Latin language or literature to be taken with consent of instructor and department chair. May be repeated for credit.

Portuguese Courses

101 Fundamental Portuguese — A (4)

Prerequisite: previous study of a Romance language. Listening comprehension, speaking, reading comprehension, and writing of Portuguese. Conducted in Portuguese.

102 Fundamental Portuguese — B (4)

Prerequisite: Portuguese 101 or equivalent. Listening comprehension, speaking, reading comprehension of Portuguese. Conducted in Portuguese.

310 Portuguese in the Business World (3)

Prerequisites: Portuguese 102 or consent of the instructor. Emphasis on practical business-related terminology and on the cultural and socio-political contexts of doing business in Portuguesespeaking countries. Conducted in Portuguese.

317 Advanced Conversation and Composition (3)

Prerequisite: Portuguese 102 or equivalent or consent of instructor. Emphasis on free oral and written expression. Conducted in Portuguese.

320 Introduction to Luso-Brazilian Culture and Civilization (3)

Prerequisite: Portuguese 310 or 317 or equivalent, reading knowledge of Portuguese or consent of instructor. The main currents of Portuguese culture and civilization and Brazil's intellectual and artistic development from discovery to independence. Conducted in Portuguese.

325 Contemporary Brazilian Civilization (3)

Prerequisite: Portuguese 310 or 317 or equivalent. Readings and discussion to develop understanding of the social and intellectual problems, trends, and contributions to Brazil since independence. Present day Brazil. Conducted in Portuguese.

441 Brazilian Literature (3)

Prerequisite: Portuguese 310 or 317 or consent of instructor. The literature of Brazil from the colonial period to the present. Conducted in Portuguese.

499 Independent Study (1-3)
Supervised projects in Portuguese language or literature to be taken with consent of instructor and department chair. May be repeated for credit.

Prerequisite: Spanish 317 or equivalent with consent of instruc-

tor. The analyses al procedures of general linguasities in applied to Spanish. Structural contrasts between Spanish and English. The

Russian Courses

101 Fundamental Russian - A (5)

Intensive practice in listening comprehension, speaking, reading and writing to develop control of the sounds and basic forms and structures of Russian. Audiolingual assignments are an integral part of the course and are to be prepared in the language laboratory. Conducted mainly in Russian.

102 Fundamental Russian — B (5)

Prerequisite: Russian 101 or consent of instructor. Intensive practice in listening comprehension, speaking, reading and writing to develop control of the sounds and structures of Russian. Audiolingual assignments are an integral part of the course and are to be prepared in the language laboratory. Conducted mainly in Prerequisite: Spanish 201 or 203 or equivalent. Constant

203 Intermediate Russian — A (5)

Prerequisite: Russian 102 or consent of instructor. Intensive practice in understanding, speaking, reading and writing based on cultural and literary materials. Audiolingual assignments are an integral part of the course and are to be prepared in the language laboratory. Conducted in Russian.

204 Intermediate Russian — B (5)

Prerequisite: Russian 203 or consent of instructor. The student will continue practice in understanding, speaking, reading and writing conversational forms and structures of Russian. Audiolingual assignments are an integral part of the course and are to be prepared in the language laboratory. Conducted in Russian.

299 Directed Study (1-3) Prerequisite: Russian 102 or equivalent. Supervised study projects in Russian language or literature to be taken with consent of instructor and department chair. May be repeated for credit.

Spanish Courses

101 Fundamental Spanish — A (5)

Intensive practice in listening comprehension, speaking, reading and writing of Spanish. Assignments in the language laboratory. Conducted in Spanish.

102 Fundamental Spanish — B (5)

Prerequisite: Spanish 101 or equivalent. Practice in listening comprehension, speaking, reading and writing of Spanish. Assignments in the language laboratory. Conducted in Spanish.

103 Intensive Review of Fundamental Spanish (5)

For students who have completed 2 years of high school Spanish or equivalent and need an intensive review of first-year Spanish, equivalent to Spanish 101 and 102. Assignments in the language laboratory. Conducted in Spanish. anonyment box are court

201 Spanish for Hispanics (3)

Prerequisite: consent of instructor. An intermediate course designed to improve the communication skills in Spanish for bilingual students. Emphasis on spelling, grammar and composition. Conducted in Spanish. Students may not receive credit for both Spanish 201 and 203.

203 Intermediate Spanish — A (3)

Prerequisite: Spanish 102 or equivalent. Practice in speaking, understanding, reading and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. Conducted in Spanish.

204 Intermediate Spanish — B (3)

Prerequisite: Spanish 201 or 203 or equivalent. Continued practice in speaking, understanding, reading and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. Conducted in Spanish.

213 Intermediate Conversation (2)

Prerequisite: Spanish 102 or 103 or equivalent. Practice in oral expression. May be taken concurrently with Spanish 203. Conducted in Spanish.

214 Intermediate Composition (2)

Prerequisite: Spanish 201 or 203 or equivalent. Practice in written expression based on cultural and literary materials. May be taken concurrently with Spanish 204. Conducted in Spanish.

299 Directed Study (1-3)

Prerequisite: Spanish 102 or equivalent. Supervised study projects in Spanish language or literature to be taken with consent of instructor and department chair. May be repeated for credit.

300 Spanish Conversation (3)

Prerequisite: Spanish 204 or equivalent. To develop oral control of the language in the context of students' own or contemporary concerns. Not open to those with native-like proficiency in Spanish. Conducted in Spanish.

310 Spanish in the Business World (3)

Prerequisite: Spanish 204 and 214. Practical vocabulary and structure of business language, as well as the cultural background of business procedures in the Hispanic world. No credit toward Spanish major or minor. Conducted in Spanish.

311 Spanish for International Business (3)

Prerequisite: Spanish 310, which may be taken concurrently, or consent of instructor. Acquisition of vocabulary appropriate to the Hispanic business world and study of its economic institutions. Emphasis on reading comprehension, conversation and composition. No credit toward Spanish major. Conducted in Spanish.

315 Introduction to Spanish Civilization (3)

Prerequisite: Spanish 310 or 317, which may be taken concurrently, or equivalent. Readings and discussions in Spanish literature, arts and institutions. Strengthening of facility in the language. Conducted in Spanish.

316 Introduction to Spanish-American Civilization (3)

Prerequisite: Spanish 310 or 317, which may be taken concurrently or equivalent. Readings and discussion in Spanish-American literature, arts and institutions. Strengthening of facility in the language. Conducted in Spanish.

317 Advanced Conversation and Composition (3)

Prerequisite: Spanish 204 and 214 or equivalent. Open to lower-division students with consent of instructor. Emphasis on free oral and written expression. Conducted in Spanish.

375 Introduction to Literary Forms (3)

Prerequisite: Spanish 317 or consent of instructor. Introduction to literary forms and concepts of literary techniques and criticism. Analysis and interpretation of various texts. Strengthening of students' abilities in reading, language and literary criticism. Conducted in Spanish.

400 Spanish for Advanced Students and Teachers (3)

Prerequisite: Spanish 317 or equivalent. Emphasis on free oral and written expression. Conducted in Spanish.

415 Contemporary Spanish Culture (3)

Prerequisite: Spanish 315 or consent of instructor. The cultural — social, economical, political — characteristics of contemporary Spanish life. Conducted in Spanish.

416 Contemporary Spanish-American Culture (3)

Prerequisite: Spanish 316 or consent of instructor. The social, economic, artistic, and political aspects of contemporary life in Spanish America. Conducted in Spanish.

430 Spanish Literature to Neoclassicism (3)

Prerequisite: Spanish 315 and 375 or consent of instructor. Spanish literature from its beginnings to 1700. Representative works of each genre. Conducted in Spanish.

441 Spanish-American Literature (3)

Prerequisites: Spanish 316 and 375 or consent of instructor. Spanish-American Literature from *modernismo* to the present. Conducted in Spanish.

461 Spanish Literature Since Neoclassicism (3)

Prerequisites: Spanish 315 and 375 or consent of instructor. Representative works of 19th- and 20th-century Spain. Conducted in Spanish.

466 Introduction to Spanish Linguistics (3)

Prerequisite: Spanish 317 or equivalent with consent of instructor. The analytical procedures of general linguistics as applied to Spanish. Structural contrasts between Spanish and English. The application of linguistic analysis to the teaching of modern foreign languages. Conducted in Spanish.

467 Dialectology: Current Trends in Modern Spanish (3)

Prerequisites: Spanish 317, 400 or equivalent and 466, which may be taken concurrently. The differences in phonology, morphology, syntax and lexicon in linguistic patterns in all Spanish-speaking regions. Conducted in Spanish.

468 Spanish-English Contrastive Analysis (3)

Prerequisites: Spanish 317, 400 or equivalent, and 466 which may be taken concurrently. Theory and performance techniques for contrasting phonological, grammatical and lexical structures of Spanish and English. Conducted in Spanish.

475 Senior Seminar: Topics in Spanish Peninsular Literature (3)

Prerequisite: Spanish 375 or consent of instructor and senior standing in Spanish. Selected topics of the literature of Spain. Subject matter will change. May be repeated for credit. Conducted in Spanish.

485 Senior Seminar: Topics in Spanish American Literature (3)

Prerequisite: Spanish 375 or consent of instructor and senior standing in Spanish. Selected topics of the literature of Spanish America. Subject matter will change. May be repeated for credit. Conducted in Spanish.

499 Independent Study (1-3)

Supervised research projects in Spanish language or literature to be taken with consent of instructor and department chair. May be repeated for credit.

500 Graduate Seminar: Advanced Structure and Style (3) Prerequisite: Spanish 466 or equivalent. Conducted in Spanish.

530 Graduate Seminar: Historical Linguistics (3) Prerequisite: Spanish 466 or equivalent. Conducted in Spanish.

556 Graduate Seminar: Spanish Poetry (3)

Prerequisite: Spanish 430 or 461 or equivalent. Conducted in Spanish.

557 Graduate Seminar: Spanish-American Poetry (3)

Prerequisite: Spanish 441 or equivalent. Conducted in Spanish.

567 Graduate Seminar: Spanish-American Novel (3)

Prerequisite: Spanish 441 or equivalent. Conducted in Spanish.

571 Graduate Seminar: Spanish Prose (3)

Prerequisite: Spanish 430 or 461 or equivalent. Conducted in Spanish.

575 Graduate Seminar: Spanish Drama (3)

Prerequisite: Spanish 430 or 461 or equivalent. Conducted in Spanish.

576 Graduate Seminar: Hispanic Topics (3)

Prerequisite: Spanish 430 or 441 or 461 or equivalent. May be repeated for credit with different subject matter. Topics include: Contemporary Spanish Culture, Contemporary Spanish-American Culture, El Ensayo Y La Critica Literania Hispanoamericana. Conducted in Spanish.

598 Thesis (3-6)

Prerequisite: recommendation of student's graduate committee.

599 Independent Graduate Research (1-3)

Prerequisites: fluency in Spanish and consent of instructor. Supervised research projects in Spanish language or literature. May be repeated for credit.

Department of Geography

Department Chair: Robert Young
Department Office: Humanities 420A

Programs Offered
Bachelor of Arts in Geography
Minor in Geography
Master of Arts in Geography

Faculty

Wayne Engstrom, Gary Hannes, Ronald Helin, Bill Lloyd, Bill Puzo, Imre Sutton, Robert Voeks, Barbara Weightman, Robert Young

Contemporary Spanish Culture, Contemporary Spanish Advisers

Undergraduate: Wayne Engstrom

Graduate: Barbara Weightman

INTRODUCTION

Geography is unified by a common concern: the meaning of place and the organization of territory over the earth's surface. The region is a fundamental concept in geography. Geographers are concerned not only with regional definition and diversity but also with the impacts of societies on such regions as Europe, Latin America and the Pacific Rim or deserts and tropical rain forests.

Territorial, or spatial, organization is another interest of geographers and may be analyzed in terms of natural features and processes as in the study of landforms, climate, and plant communities. Similarly, geographers seek to understand and explain the physical, social, and economic organization of landscapes through studies of land use patterns, cities, cultural frameworks, and linkages between perception and behavior. These patterns and processes which define the character of places and regions are analyzed through mapping, field studies, and computer-assisted methods. These techniques demonstrate the special capacity of geographers to understand territorial relationships and to illustrate the holistic nature of place.

The specialty of cartographer, or map-maker, is the most familiar occupation of geographers, but an even larger number are employed as planners, environmental analysts, teachers, and technical specialists in a wide range of business and governmental areas.



468 Spanish English Contractive Analysis (3)

Students and counselors are advised that departmental offerings are numbered according to course content as follows: reclinical. Competency is normally demonstrated by completion

general courses: 00-09 (e.g., Geography 100) physical courses: 10-29 (e.g., Geography 110 or 323) regional courses: 30-49 (e.g., Geography 344 or 431) human courses: 50-79 (e.g., Geography 160 or 357) technical courses: 80-89 (e.g., Geography 280 or 381) special studies: 90-99 (e.g., Geography 495 or 599)

BACHELOR OF ARTS IN GEOGRAPHY

The major consists of at least 45 units of geography, of which at least 30 units must be in upper-division courses. Students may satisfy some requirements with equivalent course work taken at other institutions; they may also transfer into the major an additional 3 units of lower division geography and an approved amount of upper-division geography. Each course counted toward the major must be completed with a grade of C or higher.

Basic Requirements (Geography Core) 15 units

Geography 100 World Geography (3)

Geography 110 Principles of Physical Geography (3)

Geography 160 Culture and Environment (3)

Geography 280-281 Courses in Geographic Techniques

(3 units total) Geographical Writing (3)

or Engl 360 Scientific & Technical Writing (3)

Breadth Requirements

Complete 12 units in upper-division geography courses, including 3 units from each of the following groups -physical, regional, human and technical relay most entire via or ou constitute of the

400-Level Courses (haverage transmitted day (loo) seed 1

6 units in 400-level geography classes beyond work used to satisfy the breadth requirement. This cannot include 490s.

Career Emphases

Geography graduates typically find employment opportunities in such areas as environmental analysis, urban affairs, regional and urban planning, the travel industry and related technical fields. For this reason, two concentrations are available within the major, one in Urban Geography and a second in Environmental Analysis. I had been also also researched and senuper B null Descriptive statistisendololologo photopadolo a lina iziroth domina

Concentration in Urban Geography

The concentration in Urban Geography is within the Geography major. Students therefore must complete at least 45 units of geography, of which 30 units must be in upper-division courses. All courses must be completed with a grade of C or higher. The concentration requires completion of the 15 unit Geography Core and a minimum of three units of upper division regional geography. The following specific requirements exist for the concentration:

Foundations in Urban Geography (3 units)

Geography 170 The City (3)

Breadth Requirements (6 units) booms by Color velocities

Geography 357 Social Geography - Perception and elated Electives (3 units) (8) gastro Behavior (3)

Geography 360 Economic Geography (3)

Geography 370 Urban Geography (3)

Required Technical Course (3 units)

Geography 381 Cartography (3)

Required Physical Course (3 units)

Geography 329 Physical Geography of the City (3)

Required Technical Elective (3 units)

Either Geography 385 Quantitative Geography (3) or Geography 386 Data Processing for Geographic Information (3)

Analytical and Planning Seminars (6 units)

Geography 475 Interpretation of Urban Landscapes (3)

Geography 484 Urban Planning Methods (3)

Land Use Analysis (3) Geography 488

Concentration in Environmental Analysis

The concentration in Environmental Analysis is within the Geography major. Students therefore must complete at least 45 units of geography, of which 30 units must be in upper-division courses. All courses must be completed with a grade of C or higher. The concentration requires completion of the 15 unit Geography Core and a minimum of three units of upper division regional geography. The following specific requirements exist for the concentration:

Foundations in Environmental Analysis (6 units)

Geography 120 Environment and Change (3)

Geography 350 Conservation and Ecology in America (3)

Breadth Requirements (6 units)

Geography 312 Geomorphology (3) manupar yang and

Geography 323 Weather and Climate (3)

Geography 325 Plant Geography (3)

300 Level Techniques (3 units)

Geography 381 Cartography (3)

Geography 384 Airphoto and Image Interpretation (3)

Geography 385 Quantitative Geography (3)

Geography 386 Data Processing For Geographic

Information (3)

400 Level Techniques (3 units)

Geography 481 Automated Cartography (3)

Geography 488 Land Use Analysis (3)

Geography 489 Advanced Topics in Geo-Techniques (3)

Related Electives (3 units)

Geography 329 Physical Geography of the City (3)

Geography 352 The National Parks (3)

Geography 357 Social Geography: Perception and

Behavior (3)

Advanced Environmental Courses (6 units)

Geography 422 Regional Climatology (3)

Geography 426 The Coastal Environment (3)

Geography 431 California Environmental Change (3)

Geography 450 Hazards, Disasters and Planning (3)

Geography 468 Law and Environment (3)

MINOR IN GEOGRAPHY

The minor in geography serves students who wish to pursue a second field related to interdisciplinary studies or an elective concentration. Interested students should take at least 21 units of geography, including Geography 100 and three units from the following (110, 120, 160, 170 or 280-281) and a minimum of 12 units of upper-division work. Faculty advisers are available to help students structure their minor in geography.

MASTER OF ARTS IN GEOGRAPHY

This program provides advanced study in human and physical geography with an emphasis on theory and research. Graduates are prepared in the application of interpretive and analytical concepts and techniques to a broad spectrum of geographic situations. Such study directly serves those whose careers involve urban, regional, and environmental planning and geographic education. Geographic perspectives and methods are highly applicable to a wide range of careers in business, industry, and government.

Admission and Conditional Classification

University requirements include a baccalaureate from an accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted. The geography master's degree program requires a 3.0 grade-point average in all geography courses.

Students who have no, or a limited, background in geography will be expected to make up the deficit by taking appropriate course work in consultation with the departmental graduate adviser.

All students are required to demonstrate competency in each of geography's four main subfields: human, physical, regional, and technical. Competency is normally demonstrated by completion of at least 18 units at the upper-division or graduate level with a 3.0 grade-point average.

Graduate Standing: Classified

After completion of all prerequisites and removal of deficiencies, the student must develop an approved study plan in consultation with a personal faculty adviser and the graduate program adviser in order to be classified.

All students must complete six units of upper-division technical courses. Three units are prerequisite to classified standing. If the remaining three units were not taken as undergraduate work, they may be included in the study plan.

Study Plan

The study plan consists of 30 units of course work distributed as follows:

Required Courses

Geography 500 Seminar in Geographic Research (3)

Geography 520 Seminar in Physical Geography (3) Geography 550 Seminar in Human Geography (3)

Geography 530 Seminar: Selected Topics in Geography (3)

Geography 599 Independent Graduate Research (3)

Electives

Upper-division or graduate course work in geography (15 units unless approved for thesis; may include additional Geography 530 seminars; up to six units from related fields). (12-15)

Thesis (only with department approval)

Geography 598 Thesis (3)

Students must follow one of two plans: Plan A requiring a comprehensive examination or Plan B requiring a thesis.

Plan A requires the development of a specific field of interest and a written, three-part comprehensive exam testing knowledge in human geography, physical geography, and the student's specified area of interest. The examination may be repeated only once. Plan B requires the development of a specific field of interest, a written thesis, and a subsequent oral defense.

All students will follow Plan A unless approval for the thesis option is granted. In order to follow Plan B, the thesis option, students must have the written consent of their thesis supervisor and all members of a thesis committee. Permission to write a thesis may be granted only to students who have (1) achieved a 3.25 grade-point average after 15 units of upper-division and graduate course work and (2) demonstrated proficiency in research and writing skills.

For further details or advisement communicate with the graduate program adviser, Department of Geography.

Geography Courses

100 World Geography (3)

Introduction to world's geographical regions. Cultural patterns and their evolution in diverse physical environments.

110 Principles of Physical Geography (3)

Major components of the physical environment including landforms, climate, natural vegetation and soils. (CAN GEOG 2)

120 Environment and Change (3)

A geographic analysis of the use and misuse of environment.

160 Culture and Environment (3)

Patterns of settlement and livelihood, and the varying roles of population, social organization, religious and political ideologies, resources and technology. (CAN GEOG 4)

170 The City (3)

Geographic variations in the urbanization process, great world and American cities, and spatial patterns within the city. The city as a built environment.

280A-G Introduction to Geographical Analysis (1)

Prerequisite: minimum of one other core course in geography (i.e., 110 or 160) or consent of instructor. The technical interpretation of physical and human features and activities in the landscape. Majors must take a total of three units.

280A Interpretation of Maps & Aerial Photographs (1)

The uses of maps and aerial photographs in geographic research. Types of data which can be obtained from these sources. Rudimentary measurement techniques.

280B Introduction to Field Methods (1)

Geographic phenomena in their actual setting - "the field."

instructor. A geographic view of the city as a landscape compos 280C Introduction to Quantitative Methods (1)

Descriptive statistics in geography. Graphs, functions and equations, logarithms and exponents, and an overview of the linear regression model. (3) salqianing Principles (3)

280E Library Techniques for Geographers (1)

Library research for geographic inquiry. How and where to find the needed information. with urbanization and suburbanization processes: land use, eco-

280G Analysis of Weather Maps (1)

The use and analysis of weather maps.

281 Map Reading and Orienteering (2) notal served 800

Introduction and practical application of skills necessary for using military map products and for military navigation on the ground. A full day, eight-hour Saturday field trip is mandatory. (Same as Military Science 281)

300 Geographical Writing (3)

Prerequisites: junior standing and at least six upper-division units in geography. Experience in and analysis of geography writing: reviews of literature, essays, major research paper, oral presentation. Group and tutorial sessions. Meets the classroom portion of upper-division writing requirement for geography majors.

312 Geomorphology (3)

Prerequisite: Geography 110 or Geology 101 or consent of instructor. Landforms and the processes responsible for their

323 Weather and Climate (3)

Prerequisite: Geography 110 or consent of instructor. Atmospheric elements and controls, fronts, severe weather, and climatic classification systems.

325 Plant Geography (3)

Prerequisite: Geography 110 or consent of instructor. The characteristics and global distribution of biomes as determined by physical, biological, and historical factors. The role of humans as agents of vegetation change.

329 Physical Geography of the City (3)

Prerequisite: Geography 110 or consent of instructor. Overview of the impact of urbanization on land forms, climate, vegetation, and animals. Planning implications and case studies.

330 California Landscapes (3)

Prerequisite: upper-division standing. The landscapes of California — their environmental characteristics, development patterns and current problems.

332 United States and Canada (3)

Prerequisite: upper-division standing. The United States and Canada. The interrelated physical and cultural features that give geographic personality to the regions.

333 Latin America (3) and I appeal of notice with home america

Prerequisite: upper-division standing. Middle and South America. The interrelationships of the physical and social factors of the area.

336 Europe (3)

Prerequisite: upper-division standing. The basic physical and human lineaments of Europe. The elements that distinguish and give character to its major regional divisions.

338 Soviet Union (3)

Prerequisite: upper-division standing. Physical, historical and political geography of the Soviet Union. Economic and social themes that lend identity to the country's major geographical regions.

340 Asia (3)

Prerequisite: upper-division standing or consent of instructor. The physical, human and regional geography of Asia from Pakistan and India through Southeast Asia and the Malay Archipelago to China, Japan and Korea.

344 Africa (3) meneral tol menerupat gentilw notativib requir

Prerequisite: upper-division standing. The physical, human and regional geography of Africa. Saharan borderlands, East Africa and Southern Africa.

346 The Pacific World (3)

Prerequisite: upper-division standing. The physical, cultural and regional geography of Australia, New Zealand, Melanesia, Micronesia and Polynesia.

350 Conservation and Ecology in America (3)

Prerequisite: upper-division standing. Environmental change and resource-use problems. Land ethics, environmental law, public policy and technological impacts.

352 The National Parks (3)

The park system and its evolution as related to conservation, preservation, and recreational land use. Cultural heritage and physical environment.

357 Social Geography — Perception and Behavior (3)

Prerequisite: Geography 160 or consent of instructor. Perception and behavior in various spatial settings in cultural and physical environments. Significance to social planning.

359 Topics in Human Geography (1)

Prerequisite: upper-division standing. Social, cultural, economic or political relationships and the environment. May be repeated for credit.

360 Economic Geography (3)

Prerequisite: upper division standing. The spatial distribution of economic activities: agriculture, manufacturing industries and tertiary services.

370 Urban Geography (3)

Prerequisite: upper-division standing. American metropolitan systems and city-region linkages. Theories and spatial models of social and economic patterns within cities and suburbs; planning implications of these locational patterns.

381 Cartography (3)

Prerequisite: Geography core or consent of instructor. Compilation and construction of maps and graphs as geographic tools. The principles of effective cartographic representation. (1 hour lecture, 6 hours laboratory)

384 Airphoto and Image Interpretation (3)

Prerequisite: Geography core or consent of instructor. Use of aerial photography, space photography and other remote sensors as tools and research sources. Interpretation of physical and cultural elements of the landscape. (2 hours lecture, 3 hours laboratory)

385 Quantitative Geography (3)

Prerequisite: Geography core or consent of instructor. Spatial analysis and geographic application of descriptive and inferential statistics. Use of the electronic computer. (2 hours lecture, 2 hours activity)

386 Data Processing for Geographic Information (3)

Prerequisite: Geography core or consent of instructor. The digital computer in solving geographical problems. The acquisition of basic computer programming skills. Spatially-oriented problems. (2 hours lecture, 2 hours activity)

422 Regional Climatology (3) and Done improvious OCI

Prerequisite: Geography 323 or consent of instructor. Major climatic regions of the world; the physical factors that produce climatic patterns.

426 The Coastal Environment (3) managero labora mobility of

Prerequisite: Geography 110, 325 and 312 recommended. An ecological approach to human's impact on coastal environments, emphasizing the West Coast of North America.

431 California Environmental Change (3)

Prerequisite: Geography 330 or 350 or consent of instructor. Impact of growth and development on rural and urban California.

450 Hazards, Disasters and Planning (3)

Prerequisite: Geography 350 or Geological Sciences 101 or 120. The hazardous environment; impact of hazards and disasters on land utilization and settlement; adaptive strategies in land use planning.

468 Law and Environment (3) and to not strong and A085

Prerequisite: Geography 350 or consent of instructor. The role of law in the management of resources and in environmental planning. Property and land use regulations.

475 Interpretation of Urban Landscapes (3)

Prerequisites: Geography 357 or 370. In addition, consent of instructor. A geographic view of the city as a landscape composite of structure, space, place and experience. Emphasis is on the European and North American city.

478 Urban Planning Principles (3) (Formerly 472)

Prerequisites: Geography 370 or Poli Sci 320 or consent of instructor. Seminar/discussion on the conceptual themes and legal foundations of American urban planning. Policy areas associated with urbanization and suburbanization processes: land use, economic development, redevelopment, housing systems, neighborhood dynamics and growth management. (Same as Poli Sci 478)

481 Automated Cartography (3)

Prerequisite: Geography 381 or 386 or permission of instructor. Methods and applications of computer-assisted mapping and geographic information systems. (2 hours discussion, 3 hours lab)

484 Urban Planning Methods (3)

Prerequisite: Geography 478 or Political Science 478. Seminar and practicum on methods in urban planning. Analytical techniques and basic data sources. Population forecasting, housing surveys, economic development, fiscal impacts and area revitalization. Individual and team projects. (Same as PolSc 484)

488 Land Use Analysis (3)

Prerequisites: upper-division standing and consent of instructor. Urban and rural land use and settlement; geographic field problems. Application of geographic techniques and tools to local field studies.

489 Advanced Topics in Geo-Techniques (3)

Prerequisite: Geography 381, or 384, or 385, or 386 or consent of instructor. Selected topics pertaining to the theory and application of various geo-techniques. May be repeated more than once for credit as long as topic discussed is different.

495 Internship in Applied Geography (1-3)

Prerequisite: senior standing and consent of instructor. Students work specified number of hours in appropriate public or private organizations under the supervision of their staff and as coordinated by departmental faculty. Interns meet with instructor by arrangement. May be repeated for a maximum of three units of credit.

499 Independent Study (1-3)

Prerequisite: senior standing. Consent of instructor under whom study will be taken required before enrolling. May be repeated for a maximum of six units of credit.

500 Seminar in Geographic Research (3)

Prerequisites: graduate standing and consent of instructor. A required seminar to be taken prior to the development of a thesis.

520 Seminar in Physical Geography (3)

Prerequisite: Graduate standing or consent of instructor. Research in physical geography: methods and contemporary themes. Case studies in climatology, geomorphology, and plant geography.

530 Seminar: Selected Topics in Geography (3)

Prerequisite: graduate standing or consent of instructor. Various topics selected from any of the subfields of geography. The topic chosen and a general outline of the seminar are circulated prior to registration. May be repeated for credit.

550 Seminar in Human Geography (3)

Prerequisite: Graduate standing or consent of instructor. Survey of methodology and case studies including: experiential environments; rural landscapes; urban social and economic structure; Geography and public policy; and Third World development. indents are advised to see a member of the Contain

597 Project (3)

Prerequisites: Geography 500 and consent of adviser.

598 Thesis (3)

Prerequisites: completion of Geography 500, advancement to candidacy and consent of instructor.

599 Independent Graduate Research (1-3) Open to graduate students by consent of instructor. May be repeated for credit.

Gerontology Programs

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Program Coordinator: Rosalie Gilford

Program Office: Ruby Gerontology Center 8

Programs Offered

Minor in Gerontology

Professional Certificate in Gerontology

Emphasis in Gerontology within M.A. Sociology

Program Council

Vacant (Human Services), Tony Bell (Sociology), Kay Bathurst (Psychology), Rosalie Gilford (Coordinator), Roberta Rikli (School of Human Development and Community Service) Jeffry Young (School of Humanities and Social Sciences), Barbara Talento (Nursing), Shelley Bartenstein (Extended Education), David Walkington (Biological Science)

Advisers

Students are advised to see a member of the Gerontology Program Council or the program coordinator prior to their first semester as a gerontology minor. A flyer describing the minor in greater detail is available in the Gerontology Program office.

INTRODUCTION

Gerontology is the study of aging. It is a multidisciplinary field that examines the biological, psychological and social changes experienced by most people during their adult lives. It also stresses the impact of the growing numbers and proportion of older persons on such major social institutions as family, economy, education, politics, religion, health and welfare, science, and technology.

The minor in gerontology helps to prepare students for careers in business, government, industry, public and private agencies, and health and human service organizations by providing them with knowledge and critical understanding of the processes of adult development and aging. Gerontology is a field of study which students may analyze with the concepts, theories and methods learned in their major area of study. It introduces students to the field of services to older people. It provides students with a firm grasp of the historical development and possible future forms and processes of relationships between age groups in society.

Ruby Gerontology Center

The Charles L. and Rachel E. Ruby Gerontology Center is a center for education and research in gerontology. Students are encouraged to become involved in the research, conferences and community service activities of the center.



Gerontology Scholarship

The Emeriti Memorial Scholarship in Gerontology has been established to honor a full-time continuing junior, senior, or graduate student with a minor or an emphasis in gerontology. Criteria include scholastic achievement and professional purpose.

Student Activities

Student involvement in the gerontology program is encouraged through the Gerontology Students Association. In addition, two students are elected to serve with faculty on the Gerontology Programs Council which advises the coordinator of gerontology programs.

MINOR IN GERONTOLOGY

The gerontology minor consists of 21 units in the following areas:

Lower Division (3 units)

Sociology 133 Introduction to Gerontology (3)

Upper Division (12 units)

Sociology 333 Sociology of Aging (3)

Psychology 362 Psychology of Aging (3)

Biology 306 Biology of Aging (3)

Nursing 357 Health Promotion: Adult-Aged Nursing (3)

Upper-Division Electives (6 units, adviser approved)

A 300/400 level course in a related field (3)

A 300/400 level internship in a related field (3)

Possible Electives

English 356 The Literature of Aging (3)

Human Services 385 Program Design and Proposal

Writing (3) In the whole who was a straight of the manage C

Philosophy 314 Medical Ethics (3) Handra Amind Soll

Physical Ed 454 Physical Activity and the Aging Process (3)

Sociology 433 Aging and Social Services (3)

Sociology 446 Aging and Sexuality (3)

Sociology 460 Sociology of Death and Dying (3)

Speech Comm 345 Communication and Aging (3)

Additional elective courses are available in selected departments across campus.

Majors That Complement the Minor In Gerontology

The gerontology minor is available and appropriate to strengthen and otherwise complement the course work of students in many majors. Notation of the minor appears on the transcript and the diploma.

PROFESSIONAL CERTIFICATE IN GERONTOLOGY

Admission to this program requires a bachelor's degree with a minimum grade-point average of 2.5 in the last 60 semester units. The program requires 18 units total: three units on the social and psychological aspects of aging and 15 units of electives. For further information on specific course content, please contact the program coordinator.

EMPHASIS IN GERONTOLOGY

An emphasis in gerontology is offered under the Master of Arts in Sociology. Degree requirements are outlined in the Sociology Department section of this catalog.

Department of History

Majors That Complement the Minor in Commit

Department Chair: James Woodward
Vice Chair: Arthur Hansen
Department Office: Humanities 815F

Programs Offered
Bachelor of Arts in History
Minor in History
Master of Arts in History

Faculty

Gordon Bakken, Warren Beck, Leland Bellot, Lauren Breese, Gayle Brunelle, Jack Crabbs, Lawrence de Graaf, Jack Elenbaas, Robert Feldman, Nancy Fitch, Charles Frazee, Arthur Hansen, B. Carmon Hardy, Young Sun Hong, Harry Jeffrey, Samuel Kupper, Sheldon Maram, Frederic Miller, Mougo Nyaggah, Michael Onorato, David Pivar, Jackson Putnam, Ronald Rietveld, Danton Sailor, Seymour Scheinberg, Gary Shumway, Emory Tolbert, Ernest Toy, David Van Deventer, Nelson Woodard, James Woodward, Kinji Yada, Cecile Zinberg

Advisers

General Advisement: Check with departmental office.
Undergraduate Coordinator: Michael Onorato
Graduate Adviser: David Van Deventer
Single & Multiple Subject Waivers: Michael Onorato

INTRODUCTION

History is the study of the manifold activities of men and women in the past as conveyed to us by a variety of types of evidence in order to create new historical works. Given this broad scope, the discipline of history draws upon both the subject matter and the methods of many of the academic disciplines in the university. For example, Social History employs the methods of the social sciences, including quantitative analysis, in examining social movements and issues in the past; Psychohistory utilizes the approaches of psychology in the study of the behavior of historically significant individuals and groups; and the development of the various areas of human intellectual and cultural activity, for instance the arts and sciences, are studied to inform us of how and why people have thought as they did. The purpose of the study of history is to acquire knowledge of important past events and their causes so that the student may better understand individual and collective human behavior.



Gerontology Scholarship

Lower-division survey courses are designed to convey the broad sweep of past human events and introduce the student to the study of causation and historical source materials. Aspects of the philosophy and methodology of history and the mechanics of writing historical essays are addressed in History 300A and 300B. The study, in greater depth, of specialized historical topics comprises the bulk of the upper division offerings of the department. And ultimately, students majoring in history will take a seminar on a special topic in which they are expected to write an original historical essay based chiefly upon the analysis of historical materials that date from the time of the events studied.

The history major is intended for students who: (1) seek a broad liberal arts education with the option to choose more specialized study by geographical region, epoch and focus of inquiry (cultural, social, etc.); (2) plan a career in government service; including positions in United States Government agencies and international organizations overseas; (3) desire to study law; (4) intend to prepare for primary or secondary school teaching; or (5) intend to work for advanced degrees in history in preparation for college 110B Western Civilization Since the 16th century Canicast Western Civilization from the 16th century to the present.

Credential Information

Teaching credentials require specific study plans and students are urged to seek advice from an adviser early in their course of study. Majors planning to teach at the secondary level should have a study plan approved by the Undergraduate Coordinator or designee by the first semester of their junior year in residence.

170B United States Since 1877 (8) olid bas salugaloM 155

Oral History and an organisa del sus of mon month 2.U

The Oral History Program, under the aegis of the Department of History, is one of the most comprehensive university-based oral history programs in the nation. In addition to offering course work in interviewing techniques, technical processing methodology and community fieldwork, the program administers an assortment of ethnic, political, and other regional projects. which prevade the entire sweep of the nation's history. Satisfies

Pre-Professional Information

Students intending careers in government service or business should seek counsel from an adviser. Those planning to pursue graduate study in history should consult a faculty member of their choice. Those who expect to attend law school should plan their course of study with either Professors Bakken, Bellot, Hardy or erhancity. (Same as Afro-Ethnic Studies/Chicano Studis, raqquX) Coedia will not be given for both History 180 and 190 as land

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Each year the Shirley Weleba prize for the best historical essay especially the development of science in behraws (si bestimdus the little century Scientific concepts, that emergence and the

BACHELOR OF ARTS IN HISTORY

The undergraduate major requires a total of 47 units distributed as follows: socialism growth 2.U at menompor stars of

Introductory Survey Courses (12 units)

Western Civilization (6 units)

History 110A Western Civilization to 16th Century (3) History 110B Western Civilization Since the 16th Century (3) no eved vents rests vino noissimbs not berebiance

American History (6 units)

History 170A United States to 1877 (3) and mal Think History 170B United States Since 1877 (3) coordinator and an adviser in the area of specialization before rom-

History 180 Survey of American History (3) or History 190 Survey of American History with Emphasis on Ethnic Minorities (3) and either 170A (3) or 170B (3)

Intermediate Requirements (32 units) and American American

History 300A Historical Thinking (3) History 300B Historical Writing (3)

At least 6 units in each of the following areas:
United States History European and Ancient Mediterranean History Latin American, Asian, African, or Middle Eastern History Two upper-division history electives (6)

Advanced Requirements (3 units)

History 490 Senior Research Seminar (3)

MINOR IN HISTORY

- 1. Lower-division course work 6 or 9 units (including general education) ide unbeando necimiento na (it) espera la visitas
- 2. Upper-division course work 15 or 18 units (including History 300A or 490) had a model a model and a model and

A total of 24 units is required for the minor in history. EMPHASIS IN PUBLIC HISTORY, THE THEOLOGY

To complete 24 units, the student has the option of taking the last three units either in the introductory requirements or the upperments as those entering the regular history ration south as stand

requirements include 30 units of course work and completion o MASTER OF ARTS IN HISTORY

The Master of Arts degree in history is designed to provide a course of study for those whose interests are in teaching, business, government service and the professions as well as for personal enrichment. It offers all the basic requirements for those who intend to pursue a doctoral degree upon the completion of their study at California State University, Fullerton. Prerequisites History 130 or controllar (21) sovitoola

Applicants to the Master's program must first fulfill all requirements for admission to graduate standing in the University. A student must have a baccalaureate degree from an accredited institution with a grade-point average of at least 2.5 in the last 60 semester units and a 3.0 grade-point average in upper division history courses. After fulfilling the university requirements, the applicant's records are sent to the History Department's graduate coordinator for evaluation. Students with deficiencies will be considered for admission only after they have completed courses approved by the coordinator.

Study Plan

Each student determines his or her study plan with the graduate coordinator and an adviser in the area of specialization before commencing course work. Two plans are offered: Plan I, in which one specific field of interest is developed, requiring a written thesis or project (with an oral examination taken before the final draft): Plan II, in which written comprehensive examinations in two fields of either (1) American, (2) European or (3) Latin American, Asian, African, or Middle Eastern areas must be taken.

Thirty units of work are required for the master's degree. All students must complete the following courses:

History 502 History and Historians

History 503 Theory and History

History 504 Historical Research

History 520 or 570 Field Seminar

In addition, six more units of 500-level course work must be taken, making a total of 18. The remaining 12 units may be taken in 400 level or graduate courses related to the study plan, at least one of which must be taken in history.

Before advancement to candidacy, a cultural understanding or research skill requirement must be met. This may be fulfilled in a variety of ways: (1) an examination on reading ability in a foreign language, (2) completion of 12 units of comparative studies in other departments appropriate to the student's program, (3) an examination or courses taken in statistics, or (4) courses and certification by the oral history director.

EMPHASIS IN PUBLIC HISTORY

Students seeking admission to the Master of Arts in history with an emphasis in public history must meet the same admission requirements as those entering the regular history program. The degree requirements include 30 units of course work and completion of cultural understanding or skill requirement prior to candidacy.

Required History Courses (12 units)

History 502 History and Historians

History 503 Theory and History

History 504 Seminar in Research & Writing

History 506 Seminar in Public History 2 standard to whom

Electives (12 units)

Six units in adviser-approved content courses, three of which must be in history, and six units from the following applied courses:

History 396 Introduction to Public History

History 492 Community History

History 493 Oral History Interviewing

History 494 Oral History Editing and Indexing
History 593 Historical Agency Administration

Culminating Experience (6 units)

History 596 Graduate Internship in History

History 597 Project

For further information call the Dept. of History.

History Courses

110A Western Civilization to the 16th century (3)
Western Civilization from its origins to the 16th century. (CAN HIST 2)

110B Western Civilization Since the 16th century (3) Western Civilization from the 16th century to the present. (CAN HIST 4)

170A United States to 1877 (3)*

The political, social, economic and cultural development of the United States to 1877. Old World background, rise of the new nation, sectional problems, the Civil War and Reconstruction. (CAN HIST 8)

170B United States Since 1877 (3)*

U.S. History from the late 19th century to the present. Economic transformation, political reform movements, social, cultural, and intellectual changes, and the role of the United States in world affairs. (CAN HIST 10)

180 Survey of American History (3)*

American history from prehistoric times (before 1492) to the present according to chronological time periods. Basic themes which prevade the entire sweep of the nation's history. Satisfies state requirement in U.S. History. Not available for credit to students who have completed History 190.

190 Survey of American History with Emphasis on Ethnic Minorities (3)*

A survey of American history from prehistoric times (before 1492) to the present with special emphasis on the role of race and ethnicity. (Same as Afro-Ethnic Studies/Chicano Studies 190). Credit will not be given for both History 180 and 190.

230 The Ascent of Man (3)

Science and technology in the development of human culture, especially the development of science in western culture since the 17th century. Scientific concepts, their emergence and the social impact of science.

^{*}Both History 170A and 170B or History 180 or History 190 must be taken to satisfy the state requirement in U.S. History.

270 Women in American History (3)

A history of women and feminism in American history from the 19th century through the 20th century. Focus is primarily upon the first women's movement and general changes in the status of women in society.

300A Historical Thinking (3)

The nature of history, history of historical thought, and history's relationship to the humanities and social sciences. Seminar required of all history majors.

300B Historical Writing (3)

Prerequisites: History 300A. Research, writing and library usage (including computer-assisted bibliographic searches) as related to history. Meets the classroom portion of the upper-division writing requirement for history majors. Seminar required of all histo-421B History of the Christian Church from 1025, srojem vr

303A,B Historical Dimension of Liberal Studies (3,3)

The origins and development of modes of thought and forms of expression in the three core areas of liberal studies, i.e., the natural sciences, the social sciences, and the arts and humanities.

310 Behind the Lines: World War II (3)

World War II. The home fronts, military occupation, the resistance, espionage, genocide and the war in historical perspective. Extensive use of films.

321 Molecules and Life (3)

(Same as Chemistry 321) and also replace adding some and

330 History of Economic Development in the First and Third Worlds (3)

Prerequisite: History 110B. Examines economic development in the first and third worlds. Emphasizes the transition from agrarian to industrial economics, the emergence of modern class systems, and the utilization of women and ethnic minorities in modern and traditional economies.

340 Ancient and Medieval Britain (3) Britain from 55 B.C. to 1485. The constitutional, institutional and cultural aspects of Roman, Celtic, Anglo-Saxon, Norman and Plantagenet Britain. A AOII would still be a straight still be

341 Tudor-Stuart England (3)

England from the accession of Henry VII to the Glorious Revolution. The political, institutional, ecclesiastical and cultural aspects of the period of the Tudors and Stuarts.

342 History of Modern England and Great Britain (3)

Modern British history (Glorious Revolution to present). The achievement of constitutional monarchy, transition from agrarian to industrial society, establishment of political democracy and the rise of socialism.

350 History of Latin American Civilization (3)

Prerequisite: completion of general education requirement in History of Western Civilization. The social, economic, political and cultural evolution of Latin America from the European conquest to the present.

355 History of African Civilization (3)

Examines the social, political, economic and cultural evolution of African civilizations from early times to the present. Credit will not be given for both History 355 and Afro-Ethnic Studies 346.

360 Modern Asia: Nationalism & Revolutionary Change (3)

Prerequisite: completion of general education requirement in History of Western Civilization. A modular analysis of nationalism, revolution and modernization as drawn from the experiences of the countries of China, Japan, India and Southeast Asia.

370 American Sex Reformers (3)

Prerequisite: completion of general education requirement in American History & Culture. Sex reform and its implication for social thought and behavior. Sex reformers to be considered are Havelock Ellis, Charlotte Perkins Gilman, Alfred Kinsey, William Masters and Virginia Johnson, and David Reuben.

380 Canada, 1534-1967 (3)

Canadian history from the founding of New France and the rise of British power in North America to the establishment of an independent Canadian nation which celebrated the centenary of selfgoverning status in 1967.

383 History of California (3)

The political, economic and social history of California from the aboriginal inhabitants to the present; the development of contemporary institutions and the historical background of current licerature of each period as well as the relationships what sussi-

386A American Social History 1750-1860 (3)

Prerequisite: completion of general education requirement in the American History & Culture. A social history of the United States to the Civil War; reform movements, temperance, moral purity, women's rights, anti-slavery, spiritualism and their importance to the formation of a modern society. (Same as American Studies 386A)

386B American Social History 1865-1930 (3)

Prerequisite: completion of general education requirement in American History & Culture. A social history of the United States from the Civil War; reform, social organization and values. The women's movement, censorship, divorce, the child and the limits of reform movements in an organizational society. (Same as American Studies 386B)

393 American Military History (3)

Prerequisites: History 180 or equivalent. A survey of America's military experience focusing upon the democratic, industrial, managerial, mechanical, scientific, and social revolutions that have molded military institutions and national policies.

394 The American Civil War (3)

Prerequisites: History 170A or 180 or consent of instructor. A history of the American Civil War. Both contemporary and current analyses of the war will be amplified by the use of films and slides.

395 A History of the First World War (3) A lower 2011 228

Prerequisite: History 110B or consent of instructor. A history of the Great War stressing the military, social, economic and political aspects of the war. Films, documentaries and special lectures.

396 Introduction to Public History (3)

Prerequisites: History 180 or its equivalent. Applications of history to activities outside of teaching and academic research. Will introduce archival work, historic preservation, exhibit interpretation, and historical research and writing in business, government and individual consulting.

400A World History to 1789 (3)

Prerequisite: History 110A-B. World history for social science and history teachers in elementary and secondary education.

400B World History from 1789 (3)

Prerequisite: History 400A. World history for social science and history teachers in elementary and secondary education.

401 European Intellectual History from 1500 to the Present (3)

The competing ideas in European history from 1500 to the present which have shaped modern European institutions.

405 History of the Jews (3)

The Jewish people from the biblical period to the present. The literature of each period as well as the relationships which exist between the Jewish communities and the societies in which they exist. (Same as Religious Studies 405)

407 War and Civilization (3)

The political and social implications of modern warfare, of the development of military technologies and of changing concepts of military organizations.

410 World War II (3)

A history of World War II: Films, documentaries, lectures and discussion.

415A Classical Greece (3)

The civilization of ancient Greece. The rise and flourishing of the classical city-states; the literary and philosophic contributions to modern civilization.

415B Hellenistic Civilization (3)

The Hellenistic synthesis and the new patterns in government, the arts and sciences, philosophy and literature between the Macedonian conquest and the intervention of Rome.

417A Roman Republic (3)

Roman social and political institutions under the republic.

417B Roman Empire (3)

Roman imperial institutions and culture with attention to the rise of Christianity.

419 The Byzantine Empire (3) The Byzantine Empire (3)

The East Roman Empire from Constantine to the Ottoman conquest of 1453. Institutional aspects of Byzantine society: church, state, the economy, law and culture.

421A History of the Christian Church to 1025 (3)

The Christian Church from its origins in the apostolic preaching through the Middle Ages in both the East and West. (Same as Religious Studies 421A)

421B History of the Christian Church from 1025 mount of the Present (3)

The western church as an institution from 1025 to the present. Orthodoxy, Catholicism and Protestantism in historical perspective. (Same as Religious Studies 421B)

423 Medieval History, 300-1350 (3)

Medieval civilizations — East European, West European, and Islamic — from the decline of the Roman Empire to the beginning of the Hundred Year's War, with emphasis on cultural, intellectual, and social history.

425A The Renaissance (3)

Europe from 1400 to 1525. The beginnings of capitalism, the beginnings of the modern state, humanism, the pre-Reformation and the church on the eve of the Reformation.

425B The Reformation (3)

Europe from 1525 to 1648; The Protestants and Catholic Reformations; the religious wars; the price rise; royal absolutism; the rise of science.

426 Rise of Modern Europe, 1648-1763 (3)

Prerequisite: History 110B. European diplomatic history and the balance of power from 1648 to 1763. The social and philosophical developments of the period.

427 Enlightenment and Revolution (3)

Prerequisite: History 110A-B. The impact of slavery in the French Caribbean, the rise of nation states, the emergence of Enlightenment thought, feminism, and popular politics during the eighteenth centruly and the French Revolution.

428 Industrialization & Social Change in Europe, 1815-1914 (3)

Prerequisite: History 110A-B. The impact of industrialization, liberal political reform, and new forms of consumption and production on the daily lives of men and women who lived in nineteenth century Europe. Socialist, nationalist, and feminist responses to social change.

429 Europe Since 1914 (3)

A survey of European history from 1914 to the aftermath of World War II.

430 History of Science: Copernicus to the Present (3)

Prerequisites: completion of general education sections. Science from the 16th century to the present especially the scientific revolutions of the 17th and 20th centuries and the interaction between science, technology and culture.

432 From Bismarck to Hitler: Modern Germany, 1870-1945 (3)

Prerequisite: History 110B. This course will both survey the social and political history of Germany from 1871 through World War II and introduce students to current historiographical debates in modern German history.

434A Russia to 1890 (3)

The establishment of the Russian state at Kiev through the great reforms, the revolutionary movement and reaction of the 19th century. The shaping of contemporary Russia.

434B The Russian Revolutions & the Soviet Regime (3)

The 1905 and 1917 revolutions and the subsequent consolidation of power under the Communist regime. The continuity and change in Russian social, political, cultural institutions and foreign policy effected by the impact of Marxist-Leninist-Stalinist ideology.

437 East Europe (3)

The political and social history of the central East European peoples. The second sec

452 20th-Century Brazil (3)

Prerequisite: completion of general education requirement in History of Western Civilization. Social, economic, cultural, and political history of Brazil, with particular emphasis on the post-World War II period.

453 Modern Mexico (3) The background of the Mexican Revolution of 1910; the Revolution itself from 1910 to 1921; the political, economic and social features; the Revolution as the first of the great upheavals of the 20th century.

455 Latin America Since 1945 (3)

Prerequisite: Completion of History 110A-B or consent of instructor. Focuses on political, economic, cultural and social patterns in key Latin American nations from 1945 to the present.

458 Southern Africa in the 20th Century (3)

Twentieth-century developments in the Union (Republic) of South Africa, Central Africa (the Rhodesias and Nyasaland) and the Portuguese colonies; the political, economic and social ramifications of race relations.

461 Modern Vietnam (3)

Prerequisite: History 110B. A study of the history of Vietnam since 1802. Special emphasis will be placed on the French colonial experience, the Vietnamese struggle against the French from 1946 to 1954, and the American involvement in Vietnam.

462A History of China (3)

Chinese history from ancient times to the middle of the 17th century; society, thought, economy and political institutions.

462B History of China (3)

Chinese history from the middle of the 17th century to the 1950s. China's internal developments and foreign intrusion, the rise of modern Chinese nationalism and intellectual developments in the Republican period, and the attempts at modernization and the triumph of communism.

462C China Since 1949 (3)

History of China from 1949 to the present. The Communist Party, political institutions, ideology, economic modernization and foreign relations of China.

463A History of Japan (3) and and bound and Ira

The social, political, and economic history of Japan until 1868 stressing the Tokugawa era. 18th-century, American that command Ame

463B History of Japan (3)

The rise of the modern Japanese state, Japanese imperialism and 472 Jeffersonian Themes in American Society

464A History of Southeast Asia, 1850-1945 (3)

Southeast Asia under the impact of imperialism and the effects of the Pacific War on the European empires.

464B History of Contemporary Southeast Asia (3)

Southeast Asia since the Pacific War to the present. The problems of the area and American involvement in Southeast Asia.

465A History of India (3) The both and the common the second and t

Prerequisite: completion of general education requirement in History of Western Civilization. Survey of the history of India from ancient times through the arrival of Islam to the decline of the Mughul Empire in 18th century. Political developments, social and religious institutions: Hinduism, Buddhism, Jainism, class, caste; early impact of Europeans.

465B History of India (3)

India from early activities of British in 18th century through Indian Independence in 1948. Political, economic, religious developments: crystallization of British supremacy in South Asia through the Indian Mutiny of 1857; India's struggle for independence; emergence of Gandhi and Nehru.

466A Islamic Civilization: Arab Era (3)

Arab predominance in the Middle East from the rise of Islam to the Mongol invasions of the 13th century.

466B Islamic Civilization: Imperial Age (3)

The Mongol invasions of the Middle East and their effects. The Ottoman Turkish, Safavid Persian and Moghul Empires down to A.D. 1800.

467 The Middle East in the 19th Century (3)

Western penetration of the Middle East and the reaction to it, modernization, the growth of nationalist movements and revolutionary disturbances ending with World War I.

468 Middle East in the 20th Century (3)

Social, political and economic changes in the Middle East since World War I. The period after World War II and recent independence movements.

470 American Colonial Civilization (3)

Prerequisite: History 170A or 180 or consent of instructor. Analyzes the creation and development of societies in English North America from 1492-1754; the emergence of economic, social and political patterns and structures in a maturing Anglo-American culture.

471 The United States from Colony to Nation (3)

Prerequisite: History 170A or 180 or consent of instructor. Social, economic, political and intellectual developments in late 18th-century America, the coming of American Revolution, origins of American nationalism, social structure of the new nation, and formation and ratification of the Constitution.

472 Jeffersonian Themes in American Society, 1800-1861 (3) PARTICIPAL TRANSPORT OF VIOLETTI ASAB

Prerequisite: completion of general education requirements in American institutions and values. Jeffersonian values and their impact upon the social, political and cultural life of the nation.

473 Democracy on Trial, 1845-1877 (3)

Prerequisite: completion of general education section on Statutory Requirements in American Institutions and Values. America's "great national crisis" and the impact of slavery, civil war and national reconstruction upon the democratic process of the re-History of Western Civilization. Survey of the heateneys, silduq

474 The United States, 1876-1914 (3)

American industry and its impact upon American life. The populist and progressive reform movements.

475 America Comes of Age, 1914-1945 (3)

Major trends in U.S. domestic policy, foreign policy, economy and society from World War I through World War II. Conflicting values and ideals of domestic policy and U.S. role in world through the Indian Mutiny of 1857; India's struggle for in srialla

476 United States Since 1945 (3)

U.S. History from 1945 to the present; the interrelationship of foreign policy, economic prosperity, domestic tensions and protest movements.

478 The History of Orange County (3)

The history of Orange County. Stress on the process of urban-

479 The Urbanization of American Life (3)

Urban life in America: the colonial town, the western town and the industrial city.

480 Development of American Law (3)

Prerequisite: History 170A or 170B. American law; contracts, property, commercial law, criminal law, corporations, torts, civil procedure and the legal profession.

481 Westward Movement in the United States (3)

The expansion of the United States population and sovereignty from the eastern seaboard to the Pacific, colonial times to 1900; regional development during the frontier period.

482 Themes in American Thought (3) Open of size of Ass.

Prerequisite: History 170A-B or 180 or 190. An examination of intellectual movements and ideas from the colonial period through the twentieth century. Examples of topics treated are: Puritanism; the Enlightenment influence in America; utopian reform; Darwinism; and Freudian thought.

483 American Religious History (3)

Prerequisite: completion of general education requirement in American Institutions & Values. American religious life and the proliferation of religious organizations as the result of the transplanting of European Christianity in a new environment. (Same as Religious Studies 483)

484 American Legal and Constitutional History (3)

Examination of legal and constitutional issues affecting the development of the U.S. Constitution, American law and government. The course will survey developments from English and colonial legal origins to constitutional problems of the post-World War II era. none land nonatilistic messes to violate

485 United States Foreign Relations (3)

Relations from 1900 to the present. The United States as a world power in the 20th-century; the search for world order and the diplomacy of the atomic age. The state of the state of the atomic age.

486 United States Cultural History (3) The social and intellectual development of the United States from the Civil War to the present.

487 History of American Parties and Politics (3)

Development of American political parties and issues from 1787 to the present. Analyzes the evolution and change in American political parties and the recent impact of mass media upon them.

488 Black America Since 1890 (3)

Black Americans from Booker T. Washington to present; their culture and role in American life and the issues involved in their relations with other segments of the population in various regions.

490 Senior Research Seminar (3)

Prerequisites: History 300A and 300B or consent of instructor. Directed research seminar with class discussions applied to specific topics and areas as schedule and staff allow. Original research and writing. Required of all history majors.

491 Proseminar in Special Topics in History (3)

Prerequisite: completion of General Education Section I. Intensive study of selected phases or periods of history.

492 Community History (3)

Historical development communities in general including the Orange County area. Techniques of gathering and processing local historical data, including oral interviews and other archival materials.

493 Oral History (3)

The utilization of tape recorded interviews to document significant events in 20th-century history. Training will be given in interviewing techniques, specific background research and equipment use, after which students conduct a number of tape recorded interviews.

494 Oral History Editing and Indexing (3)

Prerequisite: senior standing and consent of instructor. Techniques of editing, book and photo layout, and indexing. Focuses on oral history documents but includes other historical and technical editing.

498 History Internship (3)

The internship program offers work experience related to the history academic program or to areas of public and private employment where any liberal arts major is appropriate.

499 Independent Study (1-3)

Open to advanced students in history with consent of department chair. May be repeated for credit.

502 History and Historians (3)

Prerequisite: consent of instructor. Seminar in historical criticism where students examine modern historians for their methods and methodologies, their abilities to enlarge conceptions of history, and for the manner in which the historical profession receives new knowledge and methods.

503 Theory and History (3)

Prerequisite: History 502 or consent of instructor. Seminar introducing student to philosophical issues in history as a humanistic social science, to epistemological considerations of the relationship of history to other disciplines, and to new subdisciplines in history. Required for the M.A.

504 Historical Research (3)

Prerequisites: History 502, 503 or consent of instructor. Theory applied to particular historical topics. Students will develop theoretical and analytical frameworks that are effective in explaining the historical problem under consideration. Seminar required for the M.A.

506 Seminar in Public History (3)

Prerequisite: consent of instructor. Seminar in sources, themes, writing and formats used by historians working outside the classroom. Content will vary with instructor and will emphasize application of historical methods to various sectors of community history. Alternative to History 570/520 requirement for M.A.

520 Seminar in European History (3)

Prerequisite: consent of instructor. A seminar in which students will utilize primary sources in writing research papers in European History. (Chicano Studies), James Charles (Concorne)

570 Seminar in American History (3)

Prerequisite: consent of instructor. A seminar in which students will utilize primary sources in writing research papers in American History, woos I nelected adventily order (nobeouta) erest

593 Historical Agency Administration (3)

Prerequisite: consent of instructor. Practicum in various aspects and issues of administering organizations relating to history, e.g., museums, historical parks. Will cover financial, personnel and public relations aspects, the role of various agencies in the historical profession.

596 Graduate Internship in History (3)

Prerequisite: classified graduate status. Professional-level internship in historical work. Usually precedes History 597, Project, and constitutes research phase of main graduate exercise as well as preparation for post-graduate career. This course may be repeated for credit.

597 History Project (3 or 6)

The editing of a significant body of primary source materials, including a critical and interpretive introduction as well as appropriate reference and explanatory notes. Foreign sources will normally be translated into English.

598 Thesis (3 or 6)

Prerequisite: consent of instructor. May be repeated for credit.

599 Independent Graduate Research (1-3)

Open to graduate students in history with consent of department chair. May be repeated for credit.

Latin American Studies Program

Program Coordinator: Bruce Wright Program Office: McCarthy Hall 103

Prerequisite: consent of instructor. Seminar to sources, themes, writing and formats used by historians work bereffO emproor

Bachelor of Arts in Latin American Studies

Minor in Latin American Studies

Program Council

Oswaldo Arana (Foreign Languages), Nancy Baden (Foreign Languages), Warren Beck (History), Ruth Capelle (Art), Isaac Cardenas (Chicano Studies), James Dietz (Economics), Roger Dittman (Physics), Dagoberto Fuentes (Chicano Studies), Ana Garza (Education), Ron Harmon (Foreign Languages), William Hobbs (Criminal Justice), Arturo Jasso (Foreign Languages), Leroy Joesink-Mandeville (Anthropology), Paul Kane (Education), Jackie Kiraithe (Foreign Languages), John Lafky (Economics), Irene Lange (Marketing), Sheldon Maram (History), Lon McClanahan (Biological Science), Michael Mend (Sociology), Adolfo Ortega (Chicano Studies), Ervie Peña (Foreign Languages), Joseph Platt (Chicano Studies), Marlene de Rios (Anthropology), Gerald Rosen (Sociology), Robert Voeks (Geography), Bruce Wright (Political Science).

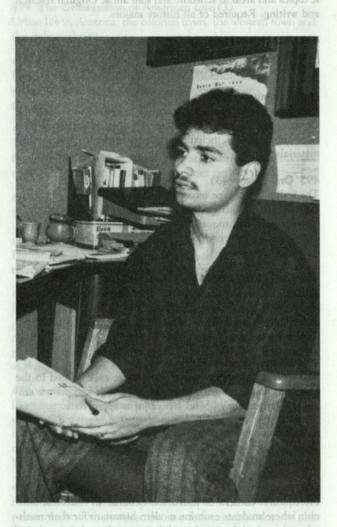
Adviser

Undergraduate: Bruce Wright

INTRODUCTION TO THE PROPERTY OF THE PROPERTY O

Latin America is our closest neighbor and is an underdeveloped region with vast potential. Countries range in size from the small islands of Puerto Rico and the Dominican Republic to resourcerich Brazil, which is larger than the continental United States. Most of these countries face fundamental economic and social problems which must be solved if extremes of wealth and poverty are to be overcome, more jobs are to be available, health care is to be improved, illiteracy is to be conquered, and democracy and social justice are to prevail.

Students of Latin American studies learn about these problems and begin to develop the knowledge necessary to contribute to helping our Latin American neighbors help themselves. By pursuing a broad yet in-depth course of study, Latin American studies students are well equipped to enter many fields and occupations — as teachers in the United States or Latin America, as business people sensitized to Latin American history and culture, as Peace Corp volunteers or missionaries, or as journalists, lawvers, doctors where contact with Latin America or Latin Americans in the United States is important.



503 Theory and History (3) meseng and the live and more

ship of history to other disciplines, and to new subdisciplines in history Required for the M.A.

Prerequiences History 300A and 300B or covered of manuactor.

Directed research seminar with class discussions applied to specif

The Latin American studies major is designed to provide an indepth, interdisciplinary understanding of Latin America. Majors develop language proficiency in both Spanish and Portuguese and have a broad range of courses from which to choose in anthropology, economics, history, geography, political science, and foreign languages and literature. The major is well-suited for: (1) students who wish to pursue careers which require residence in or knowledge of Latin America (e.g., business, journalism, government); (2) those who plan to teach Spanish and/or social sciences in the secondary schools; and (3) students who wish to pursue graduate work in Latin American studies or other disciplines where a Latin American specialization would be helpful (e.g., political science, economics, history).

BACHELOR OF ARTS IN LATIN AMERICAN STUDIES Foundation Courses

All majors should develop a language proficiency level equivalent to Spanish 204 and Portuguese 102.

Students with no language background should take:

Spanish 101 Fundamental Spanish — A (5)
Spanish 102 Fundamental Spanish — B (6) Spanish 102 Fundamental Spanish — B (5)

Spanish 203 Intermediate Spanish — A (3)

Spanish 204 Intermediate Spanish — B (3)

Portuguese 101 Fundamental Portuguese — A (4)

Portuguese 102 Fundamental Portuguese — B (4)

A student with a knowledge of Spanish and/or Portuguese may be able to meet part or all of the foundation course requirements by taking a test administered by the Department of Foreign Languages and Literatures.

Required Fields of Study

Language (3 units)

Spanish 317 Advanced Conversation and

Composition (3) or

Portuguese 317 Advanced Conversation and

Composition (3)

History and Culture (9 units)

Spanish 316 Intro to Spanish American Civilization (3)

or Portuguese 325 Contemp Brazilian Civilization (3)

and History 350 History of Latin American

Civilization (3)

and three additional units in upper-division Latin

American history

Social Science (6 units) selected from two departments

Anthro 324A The Ancient Maya (3)

Anthro 324B Aztecs & Their Predecessors (3)

Anthro 325 Peoples of South America (3)

Anthro 326 Archeology of South America (3)

Economics 333 Economic Development: Analyses and Case

Studies (3)

Economics 334 Economics of Latin America and the

Caribbean (3)

Geography 333 Latin America (3)

Poli Sci 430 Government and Politics of a Selected Nation-State (3)*

Poli Sci 431 Government and Politics of a Selected Area (3)*

Poli Sci 447 Revolutions in Latin America (3)

Poli Sci 452 Foreign Policy of a Selected Country or Group Latin American Studies of Countries (3)*

Latin Amer Studies 199 Diskeyell Searth, at Art to soil *Latin American focus only

Elective Fields of Study ADDIBMA VITAL MI ROMIM

Twelve units selected from three or more of the following groupings chosen in consultation with the program coordinator:

Anthro 324A The Ancient Maya (3)

Anthro 324B Aztecs & Their Predecessors (3)

Anthro 325 Peoples of South America (3)

Anthro 326 Archaeology of South America (3)

Chicano 302 Ancient Mexican Culture (3)

Chicano 403 Cultural Differences in Mexico and the Southwest (3)

Chicano 453 Mexico Since 1906 (3)

Portuguese 320 Introduction to Luso-Brazilian Culture and Civilization (3)

Portuguese 317 Advanced Conversation and Composition (3) or Spanish 317 Advanced Conversation and Composition (3)

Portuguese 325 Contemporary Brazilian Civilization (3) or Spanish 316 Introduction to Spanish-American Civilization (3)

Spanish 416 Contemporary Spanish-American Culture (3)

Fine Arts and Literature

Art 460B Pre-Columbian Art (3)

Chicano 430 Evolution of Mexican Literature (3)

Chicano 433 Mexican Literature Since 1940 (3)

Portuguese 441 Brazilian Literature (3)

or Spanish 441 Spanish-American Literature (3)

Spanish 466 Intro to Spanish Linguistics (3)

Spanish 485 Senior Seminar: Topics in Spanish American Literature (3) (with consent of program coordinator)

History and Politics

History 452 20th-Century Brazil (3)

History 453 Modern Mexico (3)

History 455 Latin Amer Since 1945 (3)

Poli Sci 430° Government and Politics of a Selected Nation-State (3)

Poli Sci 431° Government and Politics of a Selected Area (3)

Poli Sci 447 Revolutions in Latin America (3)

Poli Sci 452* Foreign Policy of a Selected Country or Group of Countries (3)

^{*}Latin American focus only.

Geography and Economics

Economics 333 Economic Development: Analyses and Case Studies (3)

Economics 334 Economics of Latin America and the Caribbean (3)

Geography 333 Latin America (3)

Latin American Studies (E) 2017 (E) 201

Latin Amer Studies 399 Directed Studies (1-3)

MINOR IN LATIN AMERICAN STUDIES

The minor in Latin American studies is designed to complement other majors for which a focus on Latin America can be beneficial (e.g., history, international business, communications, Spanish, economics and political science). Prospective secondary teachers may find this minor particularly attractive. The minor requires proficiency in either Spanish or Portuguese, as defined above for the major; 3 units of cultural history (History 350 or Spanish 316 or Portuguese 325); and 12 units of approved electives from at least three departments listed below:

Anthro 324A The Ancient Maya (3)

The Aztecs and Their Predecessors (3) Anthro 324B

Anthro 325 Peoples of South America (3)

Archaeology of South America (3) Anthro 326

Chicano 302 Ancient Mexican Culture (3)

Chicano 403 Cultural Differences in Mexico and the Southwest (3)

Chicano 430 The Evolution of Mexican Literature (3)

Chicano 433 Mexican Literature Since 1940 (3)

Chicano 440 Mexican Intellectual Thought (3)

Chicano 453 Mexico Since 1906 (3)

Economics 333 Economic Development: Analysis and Case Studies (3)

Economics 334 Economics of Latin America and the Caribbean (3)

Spanish 310 Spanish in the Business World (3)

Introduction to Spanish-American Spanish 316 Civilization (3)

Spanish 416 Contemporary Spanish-American Culture (3)

Spanish 441 Spanish-American Literature (3)

Spanish 485 Senior Seminar: Topics in Spanish-American Literature (3)

Portuguese 310 Portuguese in the Business World (3)

Portuguese 325 Contemporary Brazilian Civilization (3)

Portuguese 441 Brazilian Literature (3)

Geography 333 Latin America (3)

History 452 20th-Century Brazil (3)

History 453 Modern Mexico (3)

History 455 Latin America Since 1945 (3)

Poli Sci 430° Government and Politics of a Selected Nation-State (3)

Poli Sci 431° Government and Politics of a Selected Area (3)

Poli Sci 447 Revolutions in Latin America (3)

Poli Sci 452° Foreign Policy of a Selected Country or Group of Countries (3)

Latin American Studies Course

399 Directed Study (1-3)

Prerequisite: approval of program coordinator. Supervised individual or small group study as an elective. May be repeated for credit with different content.

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^{*}Latin American focus only.

Liberal Studies Program



308 Liberal Studies in the Social Sciences (3) Chemistre

Program Coordinator: Ronald Clapper Program Office: McCarthy Hall 103

Programs Offered Bachelor of Arts in Liberal Studies

Faculty of surface of the Faculty of

Ronald Clapper, Albert Vogeler

Program Council

Gayle Brunelle (History), Gaylen Carlson (Geological Sciences), Ronald Clapper (Coordinator), Carol Copp (Sociology), Gerald Gannon (Mathematics), Jane Hipolito (English), James Hofmann (Philosophy), Emmett Long (Speech Communications), Stewart Long (Economics), Bradley Starr (Religious Studies), Albert Vogeler (Liberal Studies), E. James Weaver (American Studies), Bruce Weber (Chemistry)

Advisers

Undergraduate: Ronald Clapper, Gerald Gannon, James Hofmann, Jane Hipolito, Emmett Long, Albert Vogeler

INTRODUCTION

Liberal Studies is interdisciplinary study in the humanities and arts, science, and the social sciences. It includes the origin and development of each of these areas and a comparison of their methods and concepts.

The major in Liberal Studies is designed for students who desire the broadest possible liberal education: (1) as preparation for teaching all subjects in the elementary school classroom; (2) as an alternative approach to careers in business; (3) as preprofessional preparation for entry into professional schools in the health sciences, law, ministry, etc.; (4) as a means of obtaining specific occupational requirements that cannot be met from course work in a single department; (5) and as a source of personal growth and development.

Credential Information

Students seeking a Multiple Subjects (Elementary) Teaching Credential must either pass the Core Battery of the National Teachers' Examination or complete an approved Waiver Program at CSUF or another institution. Students who wish to complete the Multiple Subjects Waiver Program at CSUF along with their course work in the liberal studies major should consult a liberal studies adviser.

Recommended Program in General Education

Students seeking a Multiple Subjects (Elementary) Teaching Credential who wish a waiver for the Core Battery of the National Teachers' Examination should consult a liberal studies adviser in order to coordinate general education and waiver requirements.

BACHELOR OF ARTS IN LIBERAL STUDIES

In addition to the 24-unit core required of all majors, students select a 27-unit option under the Elementary Education Plan or the Thematic Plan.

Core Courses (24 units)

History 303A, B Historical Dimension of Liberal Studies (3-3)**

Philosophy 304 Methods of Inquiry (3)

Speech Comm 305 Liberal Studies in Communication Processes (3)

Liberal Studies 306 Liberal Studies in Humanities and Arts (3)

Liberal Studies 307 Liberal Studies in the Sciences (3) Liberal Studies 308 Liberal Studies in the Social Sciences (3) Adviser-approved Senior Seminar (3)

Elementary Education Plan (27 units)

The elementary Education Plan, which is designed for students seeking an elementary or multiple subjects teaching credential, provides academic preparation in many of the subject areas taught in the elementary school.

English 301 Advanced College Writing* English 303 Structure of Modern English (3)* English/Comp Lit 110-111 (6)

or Comp Lit 324-325 (6) World Literature*

Math 303A, B Fundamental Concepts of Elementary
Mathematics (3,3)*

Science Ed 310 Physical Science Concepts (3)*
or Science Ed 453 Life Science Concepts (3)*

Upper-division social science electives in Áfro-ethnic studies, American studies, anthropology, Chicano studies, criminal justice, economics, geography, history, political science, psychology or sociology (3 units)

Upper-division humanities and arts electives in Afro-ethnic studies, American studies, art, Chicano studies, foreign languages and literatures, music, philosophy, religious studies, theatre or dance (3 units)

'In exceptional cases substitutes may be made with the approval of the program coordinator and the department concerned.

**These courses will also count toward meeting the upper-division unit requirement for general education.

Thematic Plan (27 units)

The Thematic Plan is designed for students who, after pursuing their general education, find their interests expanding rather than contracting, and for whom advanced course work in several disciplines would be more beneficial than advanced study in a single-discipline major,

The Personalized Coordinated Program (21 units)

Students are allowed to select, in consultation with a liberal studies adviser, 21 units of upper-division course work from various departments for the purpose of pursuing an interdisciplinary problem, theme, or issue. To insure breadth of knowledge, students are allowed to take (a) no more than 9 units from a single department and (b) no more than 15 units from a single area of knowledge (humanities and arts, science, social sciences). Students should have their study plan, approved by a liberal studies adviser prior to taking course work.

Teachers' Examination should consult a liberal studies adviser in order to coordinate general education and waiver requirements.

To aid Thematic Plan students in integrating and synthesizing the knowledge from the specially selected courses in their personalized coordinated program, they will be required to complete a senior project (such as a thesis or a creative work) by enrolling in three units of independent study (499) under the direction of a professor of their own choosing. Since that professor will be responsible for evaluating the project, students sign up for inde-

The Senior Project & Upper-Division Writing Requirement (6 units)

fessor to direct their project, however, students should see a liberal studies adviser for help in preparing a project proposal. Once the professor who has agreed to direct the project has signed the project proposal form, a liberal studies adviser must also sign the proposal form, indicating that the project is relevant to the personalized coordinated program.

pendent study in that professor's department. Before asking pro-

The upper-division writing course (English 301 Advanced College Writing) helps students improve their writing skills before embarking on their project. With the approval of a liberal studies adviser, students may substitute one of the upper-division writing courses that the University Board on Writing Proficiency has approved for other majors if it is more relevant that ENGL 301 to the student's personalized coordinated program.

Liberal Studies Courses

306 Liberal Studies in the Humanities and Arts (3)

Prerequisite: History 303B and completion of arts-humanities general education requirement. An interdisciplinary approach to the humanities and arts which examines their purposes, structures and major developments in this century.

307 Liberal Studies in the Sciences (3)

Prerequisite: History 303B and completion of natural sciences general education requirement. An interdisciplinary introduction to the character and aims of 20th century science, current theories and knowledge, and the role of science and technology in contemporary society.

308 Liberal Studies in the Social Sciences (3)

Prerequisite: History 303B and completion of social science general education requirement. An interdisciplinary introduction to modern social science in which major thinkers, ideas, movements and problems will be approached historically, comparatively and analytically.

490 Senior Seminar in Great Books (3)

Prerequisite: Senior standing. An intensive study of important books of Western culture. Develops critical reading of texts, clear expression of ideas and integration of knowledge. Emphasizes student-led discussions.

496 Senior Seminar in Humanities and Arts (3)

Prerequisite: Senior standing and Liberal Studies 306. Intensive interdisciplinary study of selected topics in the humanities and arts. Integrates and builds upon previous classes in Liberal Studies and emphasizes student-led discussions.

Department of Linguistics



Admission to Graduate Standing: Conditionally Classified

Requirements include a backelor's legree from uncurredited

Graduate Standings Classified and guidances, anotherical for

guistics or a related field from an accredited institution with at

least 3.0 grade-nothit average in the major courses provided that a

student holds a rachelor's degree in a major other than Linguis-

numinum of 3.0 grade point average must have been completed.

Included among the 24 urus of course work must be the following

Department Chair: Thomas P. Klammer Department Office: Education Classroom 622 Laboratory for Phonetic Research: Education Classroom 630D.

Programs Offered Bachelor of Arts in Linguistics and a role of the and and and Minor in Linguistics Master of Arts in Linguistics Faculty and to voore factor and dailing as they are assuing

Angela Della Volpe, Alan Kaye, Thomas P. Klammer, Franz Müller-Gotama, James Santucci

Adjunct Faculty

Nancy Baden (Foreign Languages), Ralph Beckett (Speech Communication), Theresa Boggs (Speech Communication), Samuel Cartledge (Foreign Languages), Janet Eyring (Foreign Languages), Ronald Harmon (Foreign Languages), Maria Montaño-Harmon (Secondary Education), Jacqueline M. Kiraithe (Foreign Languages), Kurt P. Kitselman (Speech Communication), Edith C. Li (Speech Communication), Keiji Matsumoto (Foreign Languages), Marcial Prado (Foreign Malos Languages), Ronald Riggio (Psychology), Glendon Riley (Speech Communication), Otto J. Sadovszky (Anthropology), Muriel R. Schulz (English), Donald A. Sears (English), when a William R. Smith (Psychology), Nobuko Sugamoto (Foreign Languages), Arden Thorum (Speech Communication), A. Lynn Williams (Speech Communication), Richard Lee Wiseman (Speech Communication), Jon E. Zimmermann (Foreign Languages) normalidad not betoelde toelorg etabliste

Advisers

Undergraduate: Angela Della Volpe Graduate: Alan Kaye

of any two languages or four progressive NOITOUDORTHI Linguistics is the study of language. Like other rapidly developing fields, linguistics resists simple classification into one of the traditional categories of academic disciplines. As one of the humanities, linguistics is concerned with the historical development of a particular language or language family. As a social science, linguistics may be related to anthropology in describing language as part of culture; or it may be related to psychology in describing language as a kind of human behavior. One branch of linguistics, phonetics, may even be considered a natural science, related to the physical science of acoustics and the biological sciences of anatomy and physiology. As an applied science, linguistics has found many applications in fields as far apart as language pedagogy, speech therapy, and computer programming. Finally, linguistics may be considered a formal science in its own right, related to mathematics and logic.

Language Requirement

The interdisciplinary aspects of this study are reflected in the organization of the program which offers a core of general linguistics courses and draws upon linguistically related courses in other departments.

Graduates use the major in linguistics for a liberal arts base in language related fields. With advanced work, they enter teaching, language research, translation, and linguistic field work, as well as such professional fields as law or such applied fields as teaching English as a second language.

The Bachelor of Arts is for students with an exceptional interest in and aptitude for the study of the systems of human communication. The essential relationships between language and thought and language and culture, the structure of foreign languages as well as English, the historical study of language, and formal techniques and methodologies are the theoretical foundations of linguistic analysis.

The M.A. in Linguistics builds upon a foundation of undergraduate study in linguistics and such allied areas, as foreign languages, English language, anthropology, speech communication and related areas in psychology and philosophy. The program emphasizes strong preparation in a core of general linguistics and offers the opportunity to specialize in one of several areas.

The relationship between linguistics and other disciplines and the application of the techniques, findings and insights of that science to such activities as language teaching are treated in interdisciplinary courses and seminars.

Student Awards

Each year the department honors an outstanding undergraduate student with the Award for Excellence in Undergraduate Linguistics. The Graduate Prize in Linguistics is awarded annually to a student in the M.A. program in recognition of a distinguished graduate project selected for publication in the department's Seminar Paper Series.

BACHELOR OF ARTS IN LINGUISTICS

Language Requirement

Linguistics majors are required to take two progressive semesters of any two languages or four progressive semesters of any one language.

Lower-Division Requirements (6 units)

Any two 200-level linguistics courses (6)

Upper-Division Core Requirements (15 units)

Linguistics 351 Introduction to Linguistic Phonetics and Phonology (3)

Linguistics 406 Descriptive Linguistics (3)

Linguistics 412 Sociolinguistics (3)

Linguistics 430 Historical Linguistics (3)

Any 300- or 400-level linguistics course (3)

Upper-Division Electives (12 units)

Two must be from linguistics upper-division courses other than those listed as required above; and two may be selected from linguistics upper-division courses or from the courses listed below:

Child Development 312 Human Growth and Development (3)

English 303 The Structure of Modern English (3)

English 490 History of the English Language (3) Foreign Languages, any upper division course (3)

Philosophy 368 First Course in Symbolic Logic (3)

Physics 305 Acoustics (4)

Psychology 415 Cognitive Processes (3)

Students must consult with an adviser in linguistics before establishing their individual programs of study. Other courses in the university may be taken as electives with the permission of the adviser.

MINOR IN LINGUISTICS

The minor in linguistics provides a solid introduction to the scientific study of language for students in a related major field. Students are required to take: Linguistics 106, Linguistics 351 and Linguistics 406. In addition, 12 units in elective courses selected with the approval of the undergraduate adviser are required. It is thus possible to tailor the minor to individual needs in rounding out a course of study in the student's major area of specialization.

LABORATORY OF PHONETIC RESEARCH

The Laboratory houses the department's sound spectrograph, recording equipment, and an extensive collection of tape recordings of lesser known languages and dialects. It is also the editorial home of the California Linguistic Newsletter.

MASTER OF ARTS IN LINGUISTICS

Admission to Graduate Standing: Conditionally Classified

Requirements include a bachelor's degree from an accredited institution and a minimum GPA of 2.50 in the last 60 semester units attempted.

Graduate Standing: Classified

Classified graduate standing requires a bachelor's degree in Linguistics or a related field from an accredited institution with at least 3.0 grade-point average in the major courses provided that a minimum of 24 units of upper-division course work is included. If the student holds a bachelor's degree in a major other than Linguistics, 24 units of upper-division course work in Linguistics with a minimum of 3.0 grade-point average must have been completed. Included among the 24 units of course work must be the following courses or their equivalents:

Linguistics 351 Introduction to Linguistic Phonetics and Phonology (3)

Linguistics 406 Descriptive Linguistics (3)

Linguistics 412 Sociolinguistics (3)

Linguistics 430 Historical Linguistics (3)

A student who has not completed one or more of the preceding four courses may enroll in the required course(s) concurrently with graduate course work in the program. If the student lacks the prerequisite number of Linguistics courses, they must be made up before commencing the master's degree program, with at least a 3.0 GPA in such makeup course work. In the event that the student's GPA in prerequisite Linguistics courses is less than 3.0, six to nine units of probationary, adviser-approved course work may be assigned. If the GPA in these probationary courses is 3.0 or better, the student may be classified. Some courses taken to make up qualitative deficiencies may be credited toward the M.A., if completed with a grade of B or better, and if applicable to the student's particular study plan. Courses taken to remove quantitative deficiencies may not be applied to the M.A. program.

Knowledge of one foreign language is required (equivalent of Foreign Languages 317 course). Students without course work in a foreign language may demonstrate proficiency by a score of average or better on the MLA-ETS Proficiency Examination for Advanced Students. Work toward fulfillment of this requirement may be taken concurrently with graduate work in linguistics.

Modifications of certain prerequisite requirements may be permitted in exceptional circumstances.

A study plan must be developed and approved for admission to classified graduate standing.

Study Plan Course Requirements

Units Course work in descriptive and historical

Linguistics 501 Research Methods and Bibliography (3)

Linguistics 505 Phonological Analysis (3)

Linguistics 507 Grammatical Analysis (3)

Linguistics 508 Theories of Syntax (3) Linguistics 530 Historical Linguistics (3)

Course work selected from any one of the following six areas of specialization, including other courses in the university with the approval of the adviser

Applied Linguistics

English 303 Structure of Modern English (3)

FL Ed 427 Theory of Bilingual Language

Acquisition (3)

FL Ed 468 TESOL Contrastive Analysis (3)

French 466 Intro to French Linguistics (3)

French 599 Independent Graduate Research (1-3)

German 466 Intro to German Linguistics (3)

German 599 Independent Graduate Research (1-3)

Linguistics 305 English Language in America (3)

Linguistics 403 Speech and Language

Development (3)

Linguistics 416 Anthropological Linguistics (3)

Linguistics 443A or B Principles of Teaching English to Speakers of Other Languages (3)

Linguistics 580 Special Topics in Linguistics (3)

Linguistics 596 Internship in Applied Linguistics (3)

Linguistics 599 Independent Graduate

Research (1-3)

Spanish 466 Introduction to Spanish Linguistics (3)

Spanish 467 Dialectology: Current Trends in Modern

Spanish (3)

Spanish 468 Spanish-English Contrastive

Analysis (3)

Spanish 599 Independent Graduate Research (1-3)

Anthropological Linguistics

Anthropology 599 Independent Graduate

Research (1-3)

FL Ed 468 TESOL Contrastive Analysis (3)

Linguistics 416 Anthropological Linguistics (3)

Linguistics 580 Special Topics in Linguistics (3)

Linguistics 592 Field Methods (3)

Linguistics 599 Independent Graduate Research (1-3)

Analysis of Specific Language Structures

FL Ed 468 TESOL Contrastive Analysis (3)

French 466 Intro to French Linguistics (3)

German 466 Introduction to German Linguistics (3)

Japanese 466 Introduction to Japanese

Linguistics (3)

Spanish 466 Introduction to Spanish Linguistics (3)

Japanese 468 Japanese-English Contrastive

Analysis (3)

French 500 Graduate Seminar: Advanced Structure and Style (3)

German 500 Graduate Seminar: Advanced Structure and Style (3)

Spanish 500 Graduate Seminar: Advanced Structure and Style (3)

French 530 Historical Linguistics (3)

German 530 Historical Linguistics (3)

Spanish 530 Historical Linguistics (3)

English 580 Special Topics in Linguistics (3)

English 599 Independent Graduate Research (1-3)

Spanish 599 Independent Graduate Research (1-3)

French 599 Independent Graduate Research (1-3)

German 599 Independent Graduate Research (1-3)

Linguistics 580 Special Topics in Linguistics (3)

Linguistics 592 Field Methods in Linguisitics (3)

Linguistics 596 Internship in Applied Linguistics (3)

Linguistics 599 Independent Graduate

Research (1-3)

Experimental Phonetics

Linguistics 402 Advanced Phonetics (3)
Linguistics 599 Independent Graduate
Research (1-3)

Physics 305 Acoustics (4)

Speech Comm 599 Independent Graduate
Research (1-3)

Communication and Semantics

Anthropology 599 Independent Graduate Research (1-3)

Linguistics 375 Introduction to the Philosophy of Language (3)

Linguistics 416 Anthropological Linguistics (3)

Linguistics 417 Psycholinguistics (3)

Linguistics 436 Changing Words: History, Semantics and Translation (3)

Linguistics 580 Special Topics in Linguistics (3)

Linguistics 599 Independent Graduate

Research (1-3)

Speech Comm 599 Independent Graduate Research (1-3)

Disorders of Communication

Linguistics 369 Language, Sex Roles, and the Brain (3)

Linguistics 403 Speech/Language Development (3)

Linguistics 417 Psycholinguistics (3)

Linguistics 580 Special Topics in Linguistics (3)

Linguistics 599 Independent Graduate

Research (1-3)

Speech Comm 441 Dysarticulation and

Stuttering (3)

Speech Comm 443 Voice Disorders and Cleft

Palate (3)

Speech Comm 463 Audiology (3)

Speech Comm 599 Independent Graduate

Research (1-3)

Course work in linguistics or a related field 3

Linguistics	597	Project														3
	Total		• •													

A minimum of 15 units in 500-level courses is required. Satisfactory completion of a written comprehensive examination is required at the conclusion of the program. The examination may be repeated only once. A reading list for the examination and specifications for the project are available in the department office.

For further information, consult the graduate adviser.

Linguistics Courses

105A English as a Second Language (4) (Same as Foreign Language Education 105A)

105B English as a Second Language (4) (Same as Foreign Language Education 105B)

106 Language and Linguistics (3)

The nature of language, its origin and development; language in culture, the structure of language and its systems of writing and transcription, and its application to other areas of humanistic and scientific knowledge.

108 Linguistics and Minority Dialects (3)

The sounds, meanings and vocabulary of Afro-American, Caribbean, and other English dialects and their historical origin.

230 Introduction to Word Origins and Semantics (3)

Recommended as prerequisite to Linguistics 430. An introduction to the role of word and sentence meaning as analyzed by contemporary linguistics theories. Major concepts, such as semantic fields, sense relationships, historical change of meaning and etymology.

251 Animal Language and Communication (3)

Animal linguistic behavior in comparison with human speech and its derivatives, and an exploration of experiments concerned with dolphins, chimps and other species.

254 Nonverbal Communication (3)

The physical actions, gestures and changes in the physiognomy that occur together with language and paralanguage in human communication; substitutions for language and modifications of it in varying cultures. (Same as Speech Comm 254)

301 Sanskrit (4)

An introduction to the *devanagari* script as well as the phonology, morphology and syntax of the Sanskrit language. A reading knowledge of Sanskrit will be the main goal of the course. (Same as Religious Studies 301)

305 The English Language in America (3) (Same as English 305)

351 Introduction to Linguistic Phonetics & Phonology (3)

The nature and structure of sound systems in language; a thorough investigation of the International Phonetic Alphabet as applied to many different languages including English; analytic methods and techniques.

354 Linguistics and Literature (3)

Prerequisite: a course in linguistics or English linguistics. Language as the medium of literature; the new stylistics, including theories of word choice, prosody, prose style, structure, statistical analysis, metaphor. Application to various literary forms. (Same as English 354)

369 Language, Sex Roles, and the Brain (3)

Examines how gender socialization is reflected in the structure and use of language and whether gender differences in language are biologically based or a consequence of sex roles.

375 Introduction to Philosophy of Language (3) (Same as Philosophy 375)

402 Advanced Phonetics (3)

(Same as Speech Comm 402)

403 Speech/Language Development (3) (Same as Speech Comm 403)

406 Descriptive Linguistics (3)

A study of the sounds (phonology), forms and meanings (morphology), and syntax of languages. Examples and problem solving in various languages will be emphasized. (Same as Anthropology 406)

412 Sociolinguistics (3)

Prerequisite: Linguistics 106 or equivalent. Social dialects in relation to the surrounding communities. Social stratification, acculturation, language maintenance, standardization, language planning and language change.

416 Anthropological Linguistics (3)

(Same as Anthropology 416)

417 Psycholinguistics (3)

(Same as Psychology 417)

430 Historical Linguistics (3)

Prerequisite: Linguistics 406, its equivalent, or consent of instructor. The comparative method in diachronic linguistic methodology and theory, graphemics, glottochronology, language families, dialect geography and internal reconstruction. Fulfills the course requirement of the university upper division baccalaureate writing requirement for linguistics majors.

436 Changing Words: History, Semantics and Translation (3)

Prerequisites: Linguistics 430, English 490 or consent of instructor. Study of etymology, related problems of lexicography and translation. Recent developments in theory of semantic change as related to cultural shifts. Emphasis on words, collocations, idioms. (Same as English 436)

443A Principles of Teaching English to Speakers of Other Languages (3)

(Same as Foreign Language Education 443A)

443B Principles of Teaching English to Speakers of Other Languages (3)

(Same as Foreign Language Education 443B)

492 Linguistic Fieldwork (3)

Prerequisites: Linguistics 106, 351 or 406. Methodology and practice of linguistic analysis and language description as practiced in field. Central is data collection and processing of a non-Indo-European linguistic structure using native informants. May be repeated for credit.

499 Independent Study (1-3)

Supervised projects with consent of department chair. Topic varies with the student. May be repeated for credit.

501 Research Methods and Bibliography (3)

Prerequisites: graduate standing and Linguistics 406, or equivalent. Principal books, periodicals and collections in general linguistics, specific languages and related fields; techniques of preparing research papers and field reports in linguistics. Must be taken prior to Linguistics 597.

505 Phonological Analysis (3)

Prerequisites: Linguistics 351 and 406 or consent of instructor. Phonological systems that occur in languages; emphasis on terminology used to describe changes in the system and processes affecting it; problem solving of selected language data. (Same as Anthropology 505)

507 Grammatical Analysis (3)

Prerequisite: Linguistics 406 or consent of instructor. Word formation in a variety of languages with emphasis on the terminology used to describe morphological representation on various levels; problem solving of selected language data. (Same as Anthropology 507)

508 Theories of Syntax (3)

Prerequisite: Linguistics 507 or consent of instructor, Contemporary theories of grammar, such as transformational-generative, with emphasis on theoretical problems in the analysis of language structure. (Same as Anthropology 508)

530 Graduate Seminar: Historical Linguistics (3)

Prerequisite: Linguistics 430, its equivalent or consent of instructor. The history of language, including principles and techniques for the historical study and classification of individual languages and language families, writing systems, lexicostatistical methods and linguistic geography.

580 Special Topics in Linguistics (3)

Seminar devoted to a topic in contemporary linguistics: linguistic typology; a major language family; areal linguistics; language and the computer. Topic will be circulated in advance of registration. May be repeated for credit. (Same as English 580)

592 Field Methods in Linguistics (3)

Prerequisite: consent of instructor. Methods of analysis and description of language structures. Data elicited from informants will be analyzed and described. (Same as Anthropology 592) May be repeated for credit.

596 Internship in Applied Linguistics (3)

The practical application of linguistic theory and methodology in teaching, research, or other professional work in the field. Individual supervision by the faculty and cooperating individuals. Interns meet with the instructor by arrangement. May be repeated for credit.

597 Project (3)

Prerequisite: Linguistics 501. Preparation and completion of an approved project.

599 Independent Graduate Research (1-3)

Prerequisites: graduate standing and consent of department chair. May be repeated for credit.

Pacific Rim Studies Program

Program Coordinator: William D. Puzo Program Office: McCarthy Hall 103 Coordinator's Office: Humanities 410

Program Offered Minor in Pacific Rim Studies

Faculty

Ian Bailey (Physical Education), Kwang-Wen Chu (Economics), Joan Greenwood (English), Craig Ihara (Philosophy), Irane Lange (Marketing), Kiii Marketing) (Philosophy), Irene Lange (Marketing), Keiji Matsumoto (Foreign Languages), Michael Onorato (History), Jacob Pandian (Anthropology), William D. Puzo (Geography), James Santucci (Linguistics/Religious Studies), Vera Simone (Political Science), Preston Stedman (Music), and Rich Wiseman (Speech Communication)

INTRODUCTION

The Pacific Rim includes all or parts of approximately thirty countries adjacent to the Pacific Ocean Basin. The space, peoples, resources, diversity and importance of the Pacific Rim is as great as for any comparable area in the world. The Pacific Rim and Basin occupy nearly half of the world's space. More than sixty percent of the world's people live here. Recently, America's TransAtlantic trade was surpassed by trade with Pacific Rim nations. The world's attention continues to shift from an Atlantic to a Pacific focus.

The Pacific Rim Studies Program is designed for study of those countries along the Pacific Rim which are not already included within the university's Latin American or Russian and East European Studies Programs. The minor makes available a structured selection of courses offered by the program which can complement other majors and the student's educational experience in 502 Field Methods in Linguistics (3) 11 17 1500 general.

MINOR IN PACIFIC RIM STUDIES

The minor consists of 21 units: 6 units chosen from the listed core courses and 15 units of electives chosen in consultation with an advisor as outlined below. A party heliog A at gine great APE

599 Independent Graduate Research (1-3)

Prerequisites: graduate standing and consent of department chair. May be reprinted for chelleno, consummer to the formation of

Core Courses (6 units)
Anthro 340 Peoples of Asia (3) or Anthro 347 Peoples of the Pacific (3) Geography 346 Pacific World (3) or Geography 340 Asia (3)



443A Principles of Teaching English to Speakers of Other Languages (3) cognist on non-selected

44.7 B. Principles of Teaching English nor this young or bustons Speakers of Other Languages (3) sengial or lane short

492 Linguistic Findwork (3) and the second result of crequisities Linguistics (30, 53) or 406. Methodology and practice of linguistic analysis and language description as placticed in field. Central is due collection and processing of a confindo-buropean linguistic smature using native informants. May

(Same as Foreign Language Education 443B)

Electives (15 units)

One course each from three of the four following categories, plus 6 units of advisor-approved electives:

Electives (15 units)

One course each from three of the four following categories, plus 6 units of advisor-approved electives:

Language, Culture, Geography, and Human Behavior

Anthro 340 Peoples of Asia (3)*

Anthro 347 Peoples of of the Pacific (3)*

Counseling 494 Counseling and Culture: Theory, Practice & Research (3)

Any Japanese Language Course

Any Chinese Language Course

Geography 330 California Landscapes (3)

Geography 340 Asia (3)*

Geography 346 Pacific World (3)*

Physical Ed 151 Aikido (1)

Physical Ed 152 Karate (1)

Speech Comm 320 Intercultural Communication (3)

History and Politics

History 360 Modern Asia: Nationalism & Revolutionary Change (3)

History 462A History of China (3)

History 462B History of China (3)

History 462C China Since 1949 (3)

History 463A History of Japan (3)

History 463B History of Japan (3)

History 464A History of Southeast Asia 1850-1945 (3)

History 464B History of Contemporary Southeast Asia (3)

Poli Sci 451 Problems in International Politics (3)

Poli Sci 452 Foreign Policy of Selected Country or Group of Countries (3)

Poli Sci 457 Politics of International Economics (3)

Arts and Humanities

(including Art, Literature, Philosophy and Religious Studies)

Comp Lit 257 Writing Haiku (1)

Comp Lit 380 Introduction to Asian Literature (3)

Comp Lit 423 Topics in Asian Literature (3)

Music 352 Symphonic Music in Western & Eastern Cultures (3) and Anna brolles and logo Alenda M.

Philosophy 350 Oriental Philosophy (3)

Philosophy 352 Philosophy of Asian Martial Arts (3)

Religious Studies 270 Introduction to Oriental Religions (3)

International Business and Economics

Economics 332 Economic Problems of Asia (3)

Economics 333 Economic Development, Analysis & Case

Studies (3)

Economics 335 The International Economy (3)

Economics 411 International Trade (3)

Finance 370 International Business Finance (3)

Marketing 458 International Marketing Policies (3)

^{*}One of these is applicable as an elective if not chosen as a core course.

Department of Philosophy

Department Chair: Merrill Ring

Department Office: Education Classroom 475

Programs Offered

Minor in Philosophy

Faculty (8) source and make Asta man arboards ORE and quant

John Cronquist, David Depew, Peter Facione, Albert Flores, James R. Hofmann, Craig Ihara, Merrill Ring, Gloria Rock, J. Michael Russell, Betty Safford, Frank Verges, Robert Wachbrit (3) vigosolid Leman Octovida vigosolid

Religious Studies 270 Introduction to Oriental Religiosas Advisers

For advisement about the major or the minor in philosophy, please contact the chair of the department.

INTRODUCTION

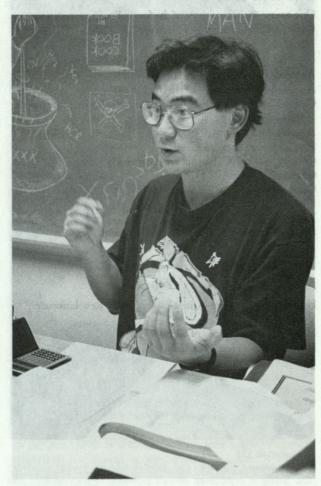
Philosophy began when people first questioned the accounts poets and priests had handed down about the structure of the world and the meaning of human life. Since then philosophers have helped create and explore virtually every aspect of our cultural life, including science, religion, art and politics. To study philosophy, therefore, is to engage in a classic form of liberal education in which powers of reasoning and conceptual analysis are explicitly developed. The study of philosophy includes (1) the practice of analytic and problem-solving skills; (2) the investigation of conceptual problems encountered in the course of reflecting about experience; (3) the assessment of assumptions underlying other sciences and arts; and (4) the exploration of intellectual and cultural history from a broad perspective. Philosophy is not a "high unit" major. It is possible for many students to obtain the benefits of a philosophically based liberal education while also majoring in another, more directly career oriented field. The Philosophy Department also encourages minors, which can be tailored to the student's individual interests or other fields of study. Majoring or minoring in philosophy is an excellent way of preparing for law school and other graduate careers that involve facility in reasoning, analysis and information processing.

Prizes in Philosophy

The Paul C. Hayner Memorial Award, to the outstanding graduating senior in philosophy; the William H. Alamshah Memorial Prize, for the best undergraduate philosophy essay submitted.

Electives (15 units)

One course each from three of the four follow 6 units of advisor-approved electives



BACHELOR OF ARTS IN PHILOSOPHY

A minimum of 39 units in philosophy is required.

- 1. Philosophy 315 Philosophical Argument and Writing (3)
- 2. Required courses in the history of philosophy before 1900: (12 units)

Philosophy 290 History of Philosophy: Greek Philosophy (3)

Philosophy 291 History of Philosophy: Medieval Philosophy (3)

Philosophy 300 History of Philosophy: Rationalism and Empiricism (3)

Philosophy 301 History of Philosophy: Kant and the 19th Century (3)

- 3. History of 20th-century philosophy requirement: (3 units). One of the following courses: Philosophy 323, 378, 380, 382, Problems of farman conduct and notal realization, sand 490.
- 4. Area requirements: Nine units (three courses) to include courses from at least two of the following areas:

Area I — Ethics, Aesthetics, Value Theory: Philosophy 310, 311, 345, 355, 365, 410, 455.

Area II — Metaphysics and Epistemology: Philosophy 420, 425, 430, 440, 470.

Area III — Logic and Language: Philosophy 368, 369, 375, 460.

Area IV — Philosophy of the Natural and Social Sciences: Philosophy 303, 341, 384, 385, 386.

- 5. Independent study and seminar requirements: Six units to be met either by taking one seminar not used to fulfill other requirements and Philosophy 499, or by taking two seminars not used to fulfill other requirements. Seminars: Philosophy 447, 455, 460, 470, 480, 490.
- 6. Electives: six units of philosophy courses, upper- or lowerdivision, which have not been used to meet requirements 2-5, above.

MINOR IN PHILOSOPHY

Students in other disciplines often find that a background in philosophy enriches their university experience and enhances work done in other fields in preparation for specific careers. The minor in philosophy requires 21 units in philosophy, at least 12 of which must be upper division. Courses taken in fulfillment of general education requirements may be counted toward the minor. The Department of Philosophy offers two ways of pursuing the minor:

A: Among the 21 units, at least six units from among the following courses: Philosophy 115, 116, 290, 291, 300, 301, 378; and either a senior seminar or three units of Philosophy 499. B: Among the 21 units, at least 15 units to be chosen from among philosophy courses correlative to the student's major or intended postbaccalaureate field, as approved by the philosophy adviser.

RECOMMENDED COURSE WORK FOR PHILOSOPHY MAJORS

A program in philosophy profits greatly from the study of psychology, the natural and social sciences, and literature. Students are advised to supplement their studies in philosophy with course work offered in these fields and in fields closely related to their philosophical interests.

Students who are planning to attend graduate school in philosophy are urged to acquire proficiency in a foreign language, and to include in their programs, in addition to the required courses, as many as possible of the following:

Philosophy 303 Introduction to the Philosophy of

Science (3)

First Course in Symbolic Logic (3) Philosophy 368

Philosophy 369 Second Course in Symbolic Logic (3)

Philosophy 375 Introduction to the Philosophy of

Language (3)

Contemporary Philosophy (3) Philosophy 378

Philosophy 380 Analytic Philosophy (3)

Philosophy of the Physical Sciences (3) Philosophy 384

Ethical Theory (3) Philosophy 410

Philosophy 420 Metaphysics (3)

Philosophy 430 Epistemology (3)

Philosophy 440 Philosophy of Mind (3)

Philosophy 455 Seminar in Values (3)

Transfer Credit

Work done in philosophy at other institutions may be counted toward the major, subject to the rules of the university and the following departmental rules: (1) only senior seminars can fulfill the seminar requirement; (2) only upper-division work can fulfill upper-division requirements; (3) in no case can more than six units of lower-division work taken at another institution count toward the major requirement of 39 units. Six units of philosophy taken at another university may be counted toward the minor.

Philosophy Courses

For more detailed course descriptions, consult the course guide which is available each semester at registration time in the Philosophy Department office.

100 Introduction to Philosophy (3)

The nature, methods and some of the main problems of philosophy. Primarily for freshmen and sophomores. Not a prerequisite for advanced courses. (CAN PHIL 2)

110 Comparative Study of the World's Great Religions (3)

A philosophical study of some of the world's important religions: Christianity, Judaism, Islam, Buddhism, Hinduism, et cetera. (Same as Religious Studies 110)

115 Western Philosophy to 1600 (3)

Major developments in the philosophical heritage of Western civilization to the 16th century. Readings typically include selections from such philosophers as: Plato, Aristotle, Epictetus, Augustine, Anselm, Aquinas, Ockham, Francis Bacon.

116 Western Philosophy since 1600 (3)

Major developments in Western civilization's philosophical heritage from the 16th/17th centuries to the present. Readings typically include selections from such philosophers as: Montaigne, Descartes, Hobbes, Locke, Hume, Kant, Rousseau, Mill, Marx, Russell, Sartre.

120 Philosophy of the Person (3)

A philosophical examination of personhood and human nature; the meaning of life, death, love, tragedy, and success; with particular focus on self-consciousness, social and bodily alienation, freedom, work, and leisure; and the role of education, art, and morality for the good life. "I'll visioning Community STE vilgooding Co

200 Argument and Reasoning (3)

Development of non-mathematical critical reasoning skills, including recognition of arguments, argument evaluation and construction of arguments.

210 Logic (3)

The logical structure of language and correct reasoning: deduction, induction, scientific reasoning, informal fallacies. (CAN PHIL 6) presenting or for granter and the the training sale formers

290 History of Philosophy: Greek Philosophy (3)

The origins of Western philosophy, and its development through Socrates, Plato and Aristotle.

291 History of Philosophy: Medieval Philosophy (3)

Scholastic philosophy and its precursors in ancient thought.

300 History of Philosophy: Rationalism and Empiricism (3)

The rationalism of Descartes, Spinoza and Leibniz, and the empiricism of Locke, Berkeley and Hume.

301 History of Philosophy: Kant and the 19th Century (3)

Prerequisite: Philosophy 300 (may be taken concurrently) or consent of instructor. Brief review of rationalism and empiricism as a background to Kant. A study of the revolutionary aspects of Kant's critical philosophy. An exploration of subsequent trends in nineteenth century philosophy, emphasizing such figures as Hegel, Schopenhauer, Marx, Mill, Kierkegaard and Nietzsche.

302 Introduction to Women's Studies (3) A RO RO REMOVED

Prerequisite: either Philosophy 100, Biological Science 101, Psychology 100, Sociology 100, or consent of instructor. Interdisciplinary introduction to feminist theories and women's studies. Examination of historical and contemporary women's issues and research in relevant disciplines.

303 Introduction to the Philosophy of Science (3)

Prerequisite: general education physical or biological science requirement. Logical and methodological features of scientific inquiry; nature of theories and interpretation of theoretical terms; scientific progress; impact of science on society and of society on

304 Methods of Inquiry (3)

An examination of problems and issues, especially philosophical ones, which arise in interdisciplinary inquiry.

310 Ethics (3)

Problems of human conduct and moral evaluation: standards for moral assessment of conduct and persons; morality and its relation to mores, social demands and personal commitments.

311 Aesthetics: Philosophy of Art and Beauty (3)

The conditions and aims of art and of aesthetic experience.

312 Business and Professional Ethics (3)

Prerequisite: upper-division standing. Explores the nature and limits of the moral rights and responsibilities of business and the professions (including law, medicine, science, engineering, journalism, management and teaching).

314 Medical Ethics (3)

Prerequisite: upper-division standing. An examination of ethical issues raised by recent technical developments in medicine, and of the moral rights and responsibilities of patients and health-care professionals.

315 Philosophical Argument and Writing (3)

Prerequisite: three units of philosophy. Philosophical concepts, distinctions and methods are used to teach philosophical and argumentative writing which is clear, critical, expressive and precise. This course is designed to satisfy the classroom portion of the upper-division writing requirement for philosophy majors.

323 Existentialism (3)

Introduction to existentialist perspectives on freedom, meaning, responsibility, authenticity and self-deception. The course typically includes discussion of Kierkegaard, Nietzsche, Heidegger and Sartre. Department of Philosophy offers two ways.

324 Existential Group (3)

Prerequisite: consent of the instructor. An investigation of how themes in the writings of existentialist philosophers pertain to the life styles, actions, and feelings of the class participants.

341 Assumptions of Psychotherapy (3)

Prerequisite: completion of Implications and Explorations in Social Sciences section of the general education program or consent of instructor. Philosophical concepts and assumptions pertinent to the theory of psychotherapy, such as the Cartesian, the mechanistic and the deterministic assumptions of Freud.

343 Philosophy of Feminism (3)

Prerequisite: three units of philosophy or three units of women's studies. A critical examination of philosophical issues connected with "second-wave" U.S. feminism. Alternative feminist theories, goals and reconstructions of traditional areas of philosophy.

345 Political Philosophy (3)

Philosophical problems concerning the nature, purposes, justification and limits of government and states; political authority, rights, and duties. (Not the same as Political Science 340)

347 Selected Problems in Philosophy (1-3)

Examination and clarification of some philosophical topic or group of related topics not adequately covered in other listed philosophy courses. May be repeated with different content for additional credit.

348 Philosophy of Religion (3)

The role of philosophy in shaping theological doctrine, in critically evaluating religious experience, in arguing for or against the existence of God, and in considering the problem of evil. (Same as Religious Studies 348)

350 Oriental Philosophy (3)

Prerequisite: completion of Introduction to the Humanities section of the general education program. Asian philosophies such as Taoism, Confucianism and Buddhism (especially Zen): world views, conceptions of human nature and the good life for man. Applications to martial and non-martial arts. Comparisons with Western philosophies, religions and values.

352 Philosophy of Asian Martial Arts (3)

Prerequisite: Three units of philosophy or appropriate prior instruction in the martial arts. A philosophical examination of Asian martial arts and how they relate to Taoism, Buddhism, Confucianism, Shinto and Zen. Samurai ideals will be compared to those of the warrior traditions of the Middle Ages and Homeric Greece.

355 Philosophy of Law (3)

Prerequisite: three units of philosophy. A philosophical examination of the concept of law and the principles and institutions that administer the law.

365 Social Philosophy (3)

Prerequisite: three units of philosophy. Theories about the nature of various social, political and legal institutions, and arguments about what these institutions ought to be.

368 First Course in Symbolic Logic (3) 10 addocolod 088

Prerequisite: entry Level Mathematics Examination; upper-division standing. The recognition and construction of correct deductions in the sentential logic and the first-order predicate calculus. (Same as Math 368)

369 Second Course in Symbolic Logic (3)

Prerequisite: Philosophy 368 or Mathematics 368. Continuation of Philosophy 368. Recognition and construction of correct deductions in the full first-order predicate calculus with identity and the calculus of descriptions. Alternative systems. Elementary results in metamathematics. (Same as Math 369)

375 Introduction to the Philosophy of Language (3)

Prerequisite: six units of philosophy or six units of linguisites or three units of each. A study of philosophical issues about language including topics such as meaning, reference, predication, and truth. (Same as Linguistics 375) to more to not an improve

378 Contemporary Philosophy (3)

Prerequisite: six units of philosophy or consent of instructor. Main trends in 20th-century philosophy such as pragmatism, logical empiricism, ordinary language philosophy, phenomenology, existentialism, hermeneutics; recent developments.

380 Analytic Philosophy (3)

Prerequisite: six units in philosophy or consent of instructor. Investigation of the rise and development of the analytic movement in 20th-century philosophy. Works of such philosophers as Moore, Russell, Wittgenstein, Carnap, Quine, Ryle, Austin and Strawson will be studied.

382 Marx and Marxism (3) Prerequisite: upper-division standing. Marx and his followers in philosophical perspective. Theories of human nature, society and intellectual activity; conceptual tools for the analysis of social phenomena; sources; and followers, both critical and dogmatic.

384 Philosophy of the Physical Sciences (3)

Prerequisite: completion of disciplinary core section of general education program or consent of instructor. Space, time and relativity; quantum mechanics, causality and real existence; laws, theories, models; topics in history of science. (Same as Physics 384)

385 Philosophy of the Social Sciences (3)

Prerequisite: completion of Introduction to the Social Sciences in the disciplinary core section of the general education program or consent of instructor. Methodological problems about the social sciences: objectivity and value; emergence; explanation; functionalism and reductionism.

386 Philosophy of Biology (3)

Prerequisite: completion of general education requirements in Biological Science. Conceptual foundations of biological science and especially of evolutionary theory. Applicability of such concepts as natural law, theory reduction, emergence and teleology to the investigation of living things from the molecular to the ecological level.

399 Directed Study (1-3)

Prerequisite: approval of department. Supervised individual study as an elective. May be repeated for credit with different content. No more than three units may be taken with any one adviser in any one semester.

400 Ethical & Professional Issues in Human Services (3) (Same as Human Services 400) Prerequisité: si comosiol philosophy or six unitelol languisites

410 Ethical Theory (3) slide to yours A does to slide sords

Prerequisite: prior course in ethics or instructor's consent. An examination of major ethical theories as advanced by such authors as Aristotle, Kant, Mill, Rawls, and MacIntyre.

420 Metaphysics (3) (8) videosoftals via rooms and 8 ve

Prerequisite: six units in philosophy or consent of instructor. Metaphysics and metaphysical issues such as reality, universals, space, time, substance, identity and difference, causality, permanence and change, freedom and determinism, minds and bodies.

425 Introduction to Phenomenology (3)

Prerequisite: six units in philosophy or consent of instructor. The historical background and basic viewpoints which have provided a framework for philosophical research and study in the writings of Husserl, Heidegger, Sartre and Merleau-Ponty.

430 Epistemology (3)

Prerequisite: six units in philosophy or consent of instructor. The nature of knowledge, belief, certainty, truth, perception, and the a priori; examinations of skepticism, traditional responses to skepticism, and the foundations of knowledge.

440 Philosophy of Mind (3)

Prerequisite: six units in philosophy or consent of instructor. The concept of mind, and such related issues as the mind-body relation, behavior, consciousness, voluntary action, weakness of will, and our knowledge of other minds.

laws, theories, models; topics inchistory of science (Sungras

Prerequisite: Philosophysicalistics and on canonical vest

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447 Seminar in Selected Problems (3)

Prerequisite: six units in philosophy or consent of instructor. Intensive study of one philosophical concern, such as an individual philosopher or topic. May be repeated with different content for additional credit.

mechanistic and the deterministic assumptions of Ford do 455 Seminar in Values (3)

Prerequisite: Philosophy 310, 311, 410, or consent of instructor. Valuation or some important form of value: ethical, aesthetic, political. May be repeated with different content for additional with "second wave" U.S. feminish . Alternative feminish this

460 Seminar in Logic and Language (3)

Prerequisite: appropriate course from among Philosophy 368, 369, 375. Advanced topics in logic or philosophy of language; or foundations of logic and mathematics. May be repeated with different content for additional credit.

470 Seminar in Metaphysics and Epistemology (3)

Prerequisite: Philosophy 420 or 430 or 440, or consent of instructor. Topics in metaphysics and epistemology such as reality, substance, mind, action, cause, knowledge, truth. May be repeated with different content for additional credit.

480 Seminar in the History of Philosophy (3)

Prerequisite: an appropriate course from among Philosophy 290, 291, 300, 301, or consent of instructor. Some important work, figure, school or problem in the history of philosophy before 1900. May be repeated with different content for additional 350 Oriental Philosophy (3) closest but man example.

490 Seminar in Contemporary Philosophy (3)

Prerequisite: appropriate course work or consent of instructor. Issues raised by such 20th-century philosophers as Russell, Moore, Wittgenstein, Austin, Quine, Husserl, Heidegger, Merleau-Ponty or Foucault. May be repeated with different content for additional credit.

352 Philosophy of Astiri Martin assessed hashing and cooling 215

499 Independent Study (1-3)

Prerequisite: approval of department. To develop competency in research. May be repeated for credit. No more than three units may be taken with any one adviser in any one semester.

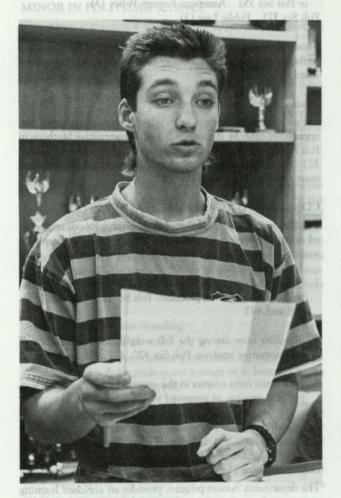
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administer the law.

365 Social Philosophy (3) (8) quoro laitnestata 426

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or 315 American Political Process (3) as each is identergousg Politics (3) Politics Politics Political Analysis (3) Politics Political Analysis (3) Political An

Department of Political Science

Department Chair: Sandra Sutphen Department Office: Education Classroom 424

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Bachelor of Arts in Political Science

Concentration in Public Administration

Minor in International Politics

Minor in Political Science and and mountained an amenagon

Minor in Public Administration

Master of Arts in Political Science

Master of Public Administration for those who seek careers in public service. The concentration describes the environment in which the profession exists

Sidney Baldwin, Virginia Bott, Keith Boyum, Michael Brown, Vincent Buck, Bert Buzan, Julian Foster, Phillip Gianos, Harvey Grody, Karl Kahrs, Alana Northrop, Paul Peretz, Alan Saltzstein, Choudhory Shamin, Vera Simone, J. Owens Smith, Raphael Sonenshein, Barbara Stone, Sandra Sutphen, Bruce Wright, Jon Yinger. There is a melan a start (snortgross).

with the work of attorneys, judges, etc. The department Advisers The department emphasizes proper advisement, and all majors are strongly urged to talk with either the undergraduate, the prelaw or the public administration adviser as soon as possible after entering the program. The adviser helps with study plans, and gives information about subsequent career possibilities, including law and other graduate schools, postbaccalaureate fellowships and scholarships, and job possibilities in local experiences, Internship courses are numbered 20%, atnemntayog

INTRODUCTION

Political science is the study of people's behavior as it relates to power and public organizations. The discipline is normally divided into six subfields: purilog lo suguio lo sezione adl'

Political philosophy, which deals with normative questions about how power should be used and distributed, rights and obligations, the nature of justice and the ideal state.

American politics, which is concerned with campaigns and elections, parties, elected executives, legislative processes, and issues of public policy. Requirements dispersion of public policy.

Public administration, the role played by public employees in policy making, planning personnel management, taxation and finance, and in responding to the needs and problems of communities and the nation.

Public law, which involves the judicial process, civil rights and liberties, and the significance of such terms as "equal opportunity" and "due process" in the United States.

Comparative government, which raises the same questions of politics, administration and law about other countries, and moves toward conclusions based on comparisons between them.

International politics, which is concerned with relations between the states and other international actors such as multinational corporations and the United Nations and with the underlying realities of power, based on resources, wealth, military preparedness and national security.

A major in political science prepares students for law school, government employment on the local, state and national levels, foreign service, teaching, business, journalism, or leadership in civic and political activities. Mastre of Arts in Political Science

The department offers a concentration in public administration for those who seek careers in public service. The concentration describes the environment in which the profession exists and the concepts and goals which underlie such functions as budgeting, personnel work, policy analysis and management. Experience is gained through the administrative internship.

For prelaw students, the department provides a series of lawrelated courses numbered in the 370 and 470 series (see course descriptions). There is a prelaw adviser and an active Prelaw Society which enables students to make close and direct contact with the work of attorneys, judges, etc. The department is closely tied to the College Legal Clinic, which provides free legal advice for students and others who cannot afford the usual costs.

Internships and advised helps and the program of the salvised helps with a special salvised helps and the salvised helps are salvised helps and the salvised helps and the salvised helps are salvised helps and the salvised helps and the salvised helps are salvised helps are salvised helps and the salvised helps are salvised helps are salvised helps and the salvised helps are salvised helps are salvised helps are salvised helps and the salvised helps are salvised helps

The department offers a variety of internships. Each one involves students in working in an agency or political organization, and in meeting in an on-campus seminar to discuss and analyze their experiences. Internship courses are numbered 298, 491, 492, 497 and 498 (see course descriptions).

BACHELOR OF ARTS IN POLITICAL SCIENCE

Basic Requirements

The major consists of 36 units of political science, of which at least 30 units must be in the upper division, plus 12 upperdivision units in related disciplines, such as American studies, anthropology, economics, geography, history, philosophy, psychology, sociology and statistics. Work in related fields must be approved in writing by one of the department's undergraduate American politics, which is concerned with campaigns arraivbe

Breadth Requirements

Majors, with the exception of those choosing the public administration concentration, are required to take Political Science 340 Political Philosophy and an introductory course (as listed below) in four of the five remaining subfields of political science.

Poli Sci 310 American Political Behavior (3)

or 315 American Political Process (3)

Poli Sci 320 Politics, Policy and Administration (3)

Poli Sci 330 Comparative Political Analysis (3)

Poli Sci 350 World Politics (3)

or Poli Sci 352 American Foreign Policy (3)

Poli Sci 375 Public Law (3)

Those choosing the public administration concentration described below take Political Science 320 and one other course listed above.

Research Methods Requirement

All majors must acquire a knowledge of research methods and approaches either by taking Poli Sci 407 Quantitative Methods in Poli Sci or by taking one of the research proseminars: Poli Sci 321, 351 or 376. Those concentrating in public administration must take either 407 or 321.

CONCENTRATION IN PUBLIC ADMINISTRATION

In addition to fulfilling the breadth, research methods and related disciplines required in the ways described above; those who wish to concentrate in public administration must take:

- 1. Nine units from among the following courses on administrative and management processes: Poli Sci 421, 422, 426, 475, 478 and 497.
- 2. Six units from among the following courses on policy and administrative analysis: Poli Sci 420, 427, 456 and 482.
- 3. Nine units from courses in the general area of the American political process, as approved by the adviser.

A total of 36 units in public administration and political science is required.

Political Science Honors Program

The department honors program provides an enriched learning experience for a selected group of students and encourages closer interaction between these students and faculty members in specialized fields of interest. Eligibility requires senior standing, a major in political science, 3.0 overall grade point average and 3.25 grade point average in all political science course work, plus recommendation for admission to the program from a faculty member in the Department.

MINOR IN INTERNATIONAL POLITICS

The minor consists of 21 units, of which 15 must be in political science. At least six units must be taken from: Poli Sci 350, 352 or 457. The remaining units must be taken from: Poli Sci 350, 352 or 457, if not already taken to fulfill the six-unit requirement specified above, Communications 426, Economics 330, Economics 335, History 485, and Poli Sci 351, 430, 431, 451, 452,

456, 461, 491. Students who wish to specialize in a specific geographical area are encouraged to investigate the possibility of taking related units in anthropology, economics, foreign languages, geography, history and literature, etc.

MINOR IN POLITICAL SCIENCE

The minor is composed of 18 units in upper-division political science courses plus Poli Sci 100.

MINOR IN PUBLIC ADMINISTRATION

The minor is composed of 18 units. Students must take Poli Sci 320, 12 units selected from the courses on administrative and management processes (defined under the public administration concentration, above) and one additional upper-division political science course.

MASTER OF ARTS IN POLITICAL SCIENCE

The degree is designed both to enlarge and deepen the competence of political science students. It is especially planned for the professional improvement and advancement of high school and community college teachers, government employees, and military personnel. It also prepares students for entering a doctoral program in political science or for law school. The M.A. program provides training and preparation for journalists, special librarians, and research staffers and for all people active in civic affairs and political life.

Admission to Graduate Standing: Conditionally Classified

University requirements include a baccalaureate from an accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted.

In addition to the university requirements, acceptance into the M.A. in political science program requires a grade-point average of 3.0 in the major field. If the major is not in one of the social sciences, the GPA requirement of 3.0 also applies to upperdivision social science courses taken. If a student's GPA does not meet these criteria, the student may appeal to the department's graduate committee for a waiver.

Graduate Standing: Classified

A student admitted to conditionally classified status may apply for classified standing which requires development of an approved study plan prior to completion of nine units. Refer to the "Graduate Regulations" section of this catalog for further information on classified standing and general study plan requirements.

Study Plan

Each candidate for a degree should, in consultation with the graduate adviser, arrange for the appointment of a graduate committee, composed of three faculty members, one of whom will serve as chair. This committee will approve the study plan, conduct the examination(s) and supervise the thesis if the student chooses that option.

As a requirement for admission to classified standing, the student, in cooperation with the graduate program adviser, must develop a study plan of 30 units of course work:

1. 15 units of required seminar work in political science. Students are required to take a minimum of one seminar each semester until completion of the entire sequence.

Scope and Theory of Political Science

Poli Sci 540 Seminar Readings in Political Philosophy (3) Poli Sci 541 Seminar in Contemporary Political Theory (3) and the state of the same of th

American Politics/Public Affairs

Poli Sci 511 Seminar in American Politics (3) Poli Sci 519 State and Local Government (3) or Poli Sci 509 Administrative Organization and Process (3)

or Poli Sci 525 Seminar in Metropolitan Area Government (3) and some or date only attrabled a recent

or Poli Sci 528 Seminar in Public Administration and Policy (3)

Cross-National Politics

Poli Sci 530 Seminar in Cross-National Politics (3)

2. 15 units of elective course work in political science (adviserapproved 400 and/or 500-level classes). These will normally be classes in a student's chosen area of specialization. They may include, where appropriate, 599 Independent Graduate Research (6 units maximum) and either 597 Project (3 units) or 598 Thesis (3-6 units).

No more than nine units taken prior to classified standing may be applied to a student's study plan. No more than nine units taken at another institution may be transferred, and these must be approved by the adviser, committee and dean of graduate studies.

Each candidate must demonstrate one of the following:

- 1. Reading knowledge of a foreign language. Students must complete this requirement by passing an examination.
- 2. Proficiency in quantitative research skills, including data analysis and research design as demonstrated by successful completion of Poli Sci 407 Quantitative Methods in Political Science, or its equivalent.

Comprehensive Examinations

All students will successfully complete written and oral examinations in Scope and Theory of Political Science, American Politics/Public Affairs and Cross-National Politics. All three sections must be successfully completed or the entire examination must be retaken. The examination has a written and an oral component. A student who does not pass the written portion is ineligible to take the oral test. The examinations may be retaken only once after an initial failure.

For advisement and further information, consult the M.A. in Political Science adviser.

MASTER OF PUBLIC ADMINISTRATION

This professional degree is designed to disseminate the knowledge and skills needed for efficient and effective government. The program acquaints the student with the theoretical and practical skills needed to improve the practice of governmental management. It also prepares one to cope with the ethical and moral dimensions of the contemporary policy maker. Career guidance, working experience and placement are important components of the program. It is designed to:

- 1. Prepare students who wish to enter the field of public administration;
- Increase the professional competence of those already embarked in public administration careers;
- Provide academic study for persons who wish to prepare themselves for second careers in public service;
- Furnish academic study for those wishing to pursue doctoral work; and
- Provide specialized training in areas such as financial administration, personnel administration, administrative research, planning and criminal justice.

The program is designed to aid the student in acquiring several skills. These include:

- 1. Written and oral communication for public administration;
- 2. Public administration research and analysis techniques;
- 3. Knowledge of organization processes and behavior;
- 4. An understanding of federal, state and local governmental and administrative systems and processes; and
- Knowledge of administrative techniques and practices such as personnel testing, program budgeting and management by objectives.

Students may also develop knowledge of various specialized areas of employment such as criminal justice, human services administration, health administration and gerontology.

Admission to Graduate Standing: Conditionally Classified

One may become conditionally classified in the Master of Public Administration if the university requirements for admission are met. These requirements are: a baccalaureate degree from an accredited institution and a grade point average of at least 2.5 in the last 60 semester units attempted (see "Graduate Regulations" section of this catalog for complete statement and procedures).

Graduate Standing: Classified

A student who meets the above requirements may become a classified student if the following conditions are met:

- 1. Completion of a minimum of 12 semester units of undergraduate course work in the social sciences, six semester units of which must have been upper-division level. At least one of the courses must have been in economics. These social science courses, to satisfy this requirement, must have included such curriculum components as: social, political and legal environment; cultural, ethical and social values; levels and institutions of government; human behavior in organizations; concepts and practices of administration; and political processes of government. Upon recommendation of the public administration faculty, suitable practical experience may be substituted for a maximum of six units of the social science requirement.
- 2. Completion of a one-semester course in basic statistics;
- 3. Satisfying at least one of the following conditions:
- A. A grade-point average of at least 3.25 in the undergraduate major and 2.5 in the last 60 units;
 - B. Between 2.75 and 3.24 in the undergraduate major, 2.5 in the last 60 units, and at least 1000 combined score on the General Test of the Graduate Record Exam;
 - C. Between 2.75 and 3.24 in the undergraduate major, 2.5 in the last 60 units, and quality professional experience as evaluated by the MPA coordinator based on job description, resume, two letters of reference and four years of professional administrative service;
 - D. A grade-point average of at least 2.5 in the last 60 semester units and completion of the first twelve units of adviser-approved course work in this program with a grade-point average of 3.25.
- Approval of a study plan through consultation with the M.P.A. coordinator.

The degree study plan must include a minimum of 39 semester units of adviser-approved course work which meets the following requirements:

1. Eighteen units of required core course work in public administration as follows:

	to estable uitemale piloq praise in Units
Poli Sci 521 Theory	Seminar in Public Administration
Poli Sci 523 Analysis .	Administrative Research and 3
Poli Sci 526	Seminar in Administrative Behavior 3
Poli Sci 571	Seminar in Public Finance 3
Poli Sci 572	Seminar in Public Sector
	Resource Management
And one of t	he following:
Poli Sci 519	State and Local Government
	Seminar in Metropolitan Area
Poli Sci 528	Seminar in Public Administration
and Policy	esupiadry, starrary diversil survivial 3
Total .	81° d. 10° ao individual, rescendi projest-in publ

- 2. Students who do not have adequate public service experience will be required to take three units of credit in the public administration internship in addition to the minimum 39 units required for the degree. types of candidates and ejectoral organizations, money, media
- 3. Students who have not completed a foundations of public administration course within the last three years will be required to take Poli Sci 509 Administrative Organization and 407 Occartifulive Methods in Political Science Casesson
- 4. Student electives should be planned in accordance with career objectives and must include at least two courses in one of these areas: public finance, human resources, planning or urban management.
- 5. Candidates for the M.P.A. degree must successfully pass a written comprehensive examination in public administration, or a candidate may, with the approval of the M.P.A. adviser, choose either the project (Poli Sci 597) or the thesis (Poli Sci 598) in lieu of the comprehensive examination. Both the project and the thesis earn three units of course work each and include a final oral defense.
- 6. Candidates who enroll in 400-level courses will be required to do additional work beyond that required of undergraduates.
- 7. A minimum of half the units must be completed at the 500level.

- 8. No more than nine units from other institutions may be accepted for transfer credit.
- 9. No more than nine units of postgraduate course work taken prior to classified standing may be applied to the master's degree program. 315 American Policy-Making Process (3)

Political Science Courses

Poli Sci 100 or its equivalent is the prerequisite for all upperdivision political science courses; 300-level courses beginning with 310 may require concurrent enrollment in a research proseminar. Prerequisites may be waived only with consent of instructor.

100 American Government (3)

People, their politics, and power; contemporary issues, changing political styles and processes, institution and underlying values of the American political system. Satisfies state requirements in U.S. Constitution and California state and local government. (CAN GOVT 2)

200 Introduction to the Study of Politics (3)

An introduction to the study of politics in general, not simply American politics. Explores the many faces of politics all over the world, examining its relationship to morality, culture, economics, justice and international affairs both theoretically and practically.

298 Political Externship (3)

Politics for the nonmajor or beginning political science student. Work in campaigns or in the offices of elected public officials; supervision by faculty and cooperating agency; seminars and individual conferences. May be repeated once.

300 Contemporary Issues in California Government and Politics (3)

Prerequisite: Poli Sci 100. The political process in state and local institutions; crisis in the cities, flight to the suburbs and race relations. Comparisons will be made with other states and their subdivisions. Satisfies state requirement in California state and local government.

309 Introduction to Metropolitan Politics (3)

Prerequisite: Poli Sci 100. The inner city and suburbia. Political processes: power in the city, the urban-suburban relationship, political fragmentation and the national government in urban

310 American Political Behavior (3)

Political behavior in America. Perspectives examined include those drawn from psychology and biology; the analysis of social structure and politics as rational behavior.

312 Contemporary Issues in Conflict (3)

Prerequisite: Poli Sci 100. Through opinionated debate and discussion between two professors with opposing viewpoints, we will explore current issues in federal and state elections, as well as other public issues. Open discussion will be encouraged.

315 American Policy-Making Process (3)

The structure, functions and relationships among American national institutions: executive, legislative, judicial, media, political parties and pressure groups — with a focus on the policy-making process.

317 Black Politics (3)

(Same as Afro 317)

320 Politics, Policy and Administration (3)

Public administration and the roles played by administrators in the formulation and execution of public policy.

321 Research Proseminar in Politics, Policy and Administration (3)

Prerequisite: Poli Sci 320 (may be taken concurrently). Research concepts and techniques applied to public administration and policy analysis.

330 Comparative Political Analysis (3)

Compares patterns of political behavior and interaction in various political systems.

331 Comparative Third World Politics Through Literature (3)

Prerequisites: Poli Sci 100. Examines comparative political life and circumstances of developing countries as depicted in their literature. In this literature we see the political problems, cultural underpinnings and governmental structures as they affect Third World peoples in their struggle to survive and grow.

340 Political Philosophy (3)

The major thinkers in the Western tradition of political philosophy from Plato to the present; the principal concepts and theories. (Not the same as Philosphy 345)

344 AIDS: Politics, Policy and Management (3)

Prerequisite: Poli Sci 100. Origins, causes, and epidemiology of AIDS from the perspective of policies, politics, and management practices in determining direction and effectiveness in control (education and intervention), health care delivery, and development of drug therapies and vaccines.

350 World Politics (3)

Political relationships among governments and other participants within the global system: internal and external factors influencing foreign policies of the superpowers, their allies and minor powers; role of non-state actors such as the United Nations, multinational corporations and liberation movements.

351 Research Proseminar in International Politics (3)

Prerequisite: Poli Sci 350 or Poli Sci 352 (may be taken concurrently). Research design, information sources and techniques applied in the scientific study of world politics.

352 American Foreign Policy (3)

United States' foreign policy since World War II. Institutions and bureaucracies of foreign policy decision-making, military and national security policy, domestic sources of foreign policy.

361 Model United Nations (2)

Preparation for and participation in model UN regional and MUN of the Far West conferences. Instruction on structures and functions of UN and related agencies. Guided research on country to be represented and agenda items to be discussed. May be repeated for credit.

375 Public Law (3)

Nature and function of public law particularly, within the Anglo-American political tradition. Emphasis upon impact of legal and political institutions upon each other.

376 Research Proseminar in Public Law (3)

Prerequisite: Poli Sci 375 (may be taken concurrently) or consent of instructor. Research concepts, techniques and legal tools applied to an individual research project in public law. Useful prelaw course.

405 Campaigns and Elections (3)

Prerequisites: Poli Sci 100 and consent of instructor. An exploration of modern political campaigns in America focusing on new types of candidates and electoral organizations; money, media and consultants; and methods of predicting and interpreting election results.

407 Quantitative Methods in Political Science (3)

Quantitative research methods in political science. Introduction to research design and statistical measures employed in analyzing social science research data.

410 Political Parties (3)

The structure and methods by which the political parties operate in the American political system with some comparisons to their structure and operation in other democratic societies.

411 Art of Administration (3)

Prerequisite: consent of instructor. Public administration as "art" rather than "science." Administrative novels and other fictional literature, and other audio-visual media.

412 The Art of Politics (3)

Prerequisite: consent of instructor. Politics as practiced and understood by practitioners of the art. A seminar which features guest lecturers.

414 The Legislative Process (3)

The legislative process in Congress and state legislatures. Policy, representation, reform and behavior of individual legislators. Bureaucratic lawmaking and the legislative roles of the President and interest groups.

416 The American Presidency (3)

Presidential power, the resources on which that power is based. and the limitations on the use of that power. The relations between the President and Congress, the bureaucracy, the press and the public.

417 Politics Through Film (3)

Prerequisite: Poli Sci 100. American politics from the Twenties to the present as seen through eyes of film-makers. Besides viewing films, students will read material relevant to films and write several papers linking film themes to the literature of American politics.

420 Governing the Urban Community (3)

Ideas, institutions, interests in the governance of urban communities emphasizing decision-making, problem-solving, policymaking and administrative institutions.

421 Public Finance Administration (3)

Prerequisite: Poli Sci 320. Survey of national, state and local taxing and spending systems. Emphasis on political determinants of budget policy.

422 Public Personnel Administration (3)

Prerequisite: Poli Sci 320. The civil service and the merit system; recruitment procedures and examinations; position classification, salary structures, retirement plans, in-service training, employee organizations and personnel supervision.

426 Collective Bargaining in the Public Sector (3)

Prerequisite: Poli Sci 320. Bargaining in the public sector; principles, practices, problems in negotiating labor contracts; mediation, conciliation, fact-finding and arbitration settlement techniques; government as an intervenor, moderator and judge of last resort.

427 Current Issues in Urban and Metropolitan Policy (3)

Policy issues and alternatives in urban and metropolitan problem areas such as law enforcement, transportation, housing or education.

430 Government Politics of a Selected Nation-State (3)

Prerequisite: Poli Sci 330 or consent of instructor. The political institutions and processes of a selected nation-state. May be repeated for credit.

431 Government and Politics of a Selected Area (3)

Prerequisite: Poli Sci 330 or consent of instructor. A systematic analysis of individual nation-states set against the backdrop of history, culture and economic circumstances in each case. May be repeated for credit.

432 Gender Issues in Organization Theory (3)

Prerequisite: Poli Sci 320 or consent of instructor. Focuses on organizational behavior where sex differences may exist - including decision-making, leadership, mentoring, recruitment and training. Attention also devoted to topics of current interest - including comparable worth, job sharing, flexitime.

440 Political Ideologies and Attitudes (3)

The content and historical evolution of modern ideologies such as liberalism, democracy, communism, socialism and fascism. Their relationship to social and political change.

443 The Theory and Philosophy of Marxism (3)

Prerequisite: Poli Sci 340. Marxist theory and philosophy from its pre-Hegelian roots to the present.

445 Political Learning and Socialization (3)

Prerequisite: Poli Sci 100 and consent of instructor. Explores the bases for political attitudes, beliefs and values as predicting political behaviors; social position and socialization through family, school and peers as determinants of political orientations; application of political learning to political change, education and manipulation. Profequence Pair Sci 150. Structure, Ringtions, and political

446 Corruption, Ethics and Public Policy (3)

Ethical problems which face persons in the public service. The focus is on practical decision-making.

447 Revolutions in Latin America (3)

Prerequisite: Poli Sci 100. Comparative examination of selected movements of revolutionary change in Latin America, emphasizing relation of theory and practice. Examples: Mexico, Cuba, Chile, Nicaragua, El Salvador and Guatemala.

448 Politics and the Media (3)

Prerequisite: Poli Sci 100. This course examines the structure and influence of the media in campaigns and in government. Key topics include: the relationship between media and politicians; the use of campaign advertising; and the stature and limits of investigative journalism.

451 Problems in International Politics (3)

Prerequisite: Poli Sci 350. Selected contemporary problems in world politics. See department bulletin for subject focus each semester. May be repeated for credit.

452 Foreign Policy of a Selected Country or Group of Countries (3)

Objectives, capabilities, policy-making processes and implementation of the foreign policies of a particular country or group of countries. Focus may be on United States, Soviet Union, Latin America or other countries or areas. May be repeated for credit.

453 International Conflict, War and Peace (3)

Prerequisites: Poli Sci 350 or 352. Knowledge of 20th century world history desirable. Conflicts between countries are endemic in international relations. Some conflicts lead to war while others are resolved peacefully. What are the causes of war? How can a more peaceful world order be created?

456 The National Security Establishment (3)

Conflicting theories of national security, the functions of defense and intelligence bureaucracies in foreign and domestic policy making, problems of arms control and the dangers to democratic values and institutions posed by the technology of national security.

457 Politics of International Economics (3)

Prerequisite: Economics 100 or consent of instructor. The link between economics and international politics. The political economy of free trade and imperialism, of neo-colonialism and foreign aid. (2) souscellated bas sousces I legislical 244

460 The Chicano and Politics (3)

(Same as Chicano 460) soot base managed labor professional lab

461 The United Nations and Other Public International Organizations (3)

Prerequisite: Poli Sci 350. Structure, functions, and political processes of the United Nations, various specialized organizations such as the World Bank, and regional organizations such as the European Community.

470 Judicial Process (3)

Prerequisite: Poli Sci 375 or consent of instructor. The nature, functions and roles of courts in the Anglo-American legal system; the nature, functions and roles of major participants in the American legal system, including judges, attorneys and citizens.

473 Introduction to Constitutional Law (3)

The role of the courts, the presidency, Congress and the states within the U.S. constitutional system. Judicial review, presidential impoundment and impeachment, presidential foreign and military powers, regulation of the economy and public morals, and congressional investigations.

474 Seminar in Constitutional Law: Civil Rights and Civil Liberties (3) personal of the maintenant of the analysis of the

Prerequisite: Poli Sci 375 or consent of instructor. Case studies in constitutional rights and liberties, involving relationships between the individual and government which are affected by the Bill of Rights and the 14th Amendment.

452 Foreign Policy of a Selected Commerce (3) 475 Administrative Law (3)

Prerequisite: Poli Sci 320 or 375 or consent of instructor. Law as it affects public officials and agencies in their relations with private citizens and the business community. Case materials and regulatory practices.

478 Urban Planning Principles (3)

(Same as Geography 478)

481 Religion and Politics in the American Experience (3) (Same as Religious Studies 481)

484 Urban Planning Methods (3)

(Same as Geography 484)

485 Politics of Change (3)

A specific cultural, religious or ethnic interest group; the impact of an ideology, movement or individual or political processes and behavior. Role of women, politics of women and the law, women's liberation movement. May be repeated for credit.

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491 International Internship (3)

Prerequisites: Poli Sci 350 or 352 and skills appropriate to intern's duties. Eight hours work per week in a private agency concerned with international affairs or in a foreign consulate in Los Angeles. The intern meets with instructor periodically and writes a final paper describing and evaluating the internship experience.

492 Prelaw Internship (3)

Prerequisite: consent of instructor. Designed to acquaint students with the legal profession in the public rather than private spheres. A supervised working commitment of 10 hours weekly with an assigned individual or organization.

494 Honors Tutorial in Politics (1)

Prerequisites: senior standing and admission to Honors in Political Science. This is the core course for the Honors in Political Science program. Attendance at presentations by political scientists and critiques thereof. The culminating research for the Honors work will be presented in the tutorial

497 Government Internship (3)

Prerequisites: public administration concentration and consent of instructor. Students work 15-20 hours per week as supervised interns in a public agency. Supervision by the faculty and cooperating agency. In addition, a weekly three-hour seminar.

498 Political Internship (3)

Prerequisites: political science concentration and consent of intructor. Students work 8-12 hours per week with elected officials or candidates for elective office. Individual supervision by the faculty and cooperating individuals. Interns meet with instructor by arrangement. May be repeated for credit.

499 Independent Study (1-3)

Prerequisite: open to advanced students in political science with consent of department chair.

509 Administrative Organization and Process (3)

Prerequisite: consent of instructor. For graduate students in public administration who have not had an introductory course in public administration. Organizational theory and practice, decision making, systems analysis, performance evaluation and administrative improvement.

510 Computer Applications in Public Administration (3)

Prerequisite: Poli Sci 509. Designed to assist graduate students in public administration in understanding, using, and planning of automated systems in public agencies.

511 Seminar in American Politics (3)

Prerequisite: consent of instructor. The political process in the United States.

519 State and Local Government (3)

The structure, processes, functions and interrelationships of state and local governments in American society. State, county, municipal and special district government in California as compared with other states.

521 Seminar in Public Administration Theory (3)

Prerequisites: admission to the MPA program. The concepts, models and ideologies of public administration within the larger political system. Course restricted to students in their final six units of graduate work.

522 Seminar in Public Personnel Administration (3)

Prerequisites: a course in basic statistics and Poli Sci 320 or 509. Topics in public personnel administration.

523 Administrative Research and Analysis (3)

Prerequisites: a course in basic statistics and Poli Sci 320 or 509. Conceptual methods employed in administrative research and analysis: Organization and procedure of surveys, performance evaluation, social impact assessment, computer data analysis and report writing.

525 Seminar in Metropolitan Area Government (3)

Prerequisites: a course in basic statistics and Poli Sci 320 or 509. Political and policy issues facing metropolitan America, and the capacity of governmental institutions to handle urban problems.

526 Seminar in Administrative Behavior (3)

Prerequisites: a course in basic statistics and Poli Sci 320 or 509. Management oriented analysis of organizational behavior. Treatment of decision making, leadership, communication, group dynamics and ethical aspects of organization.

527 American Federalism and Intergovernmental Relations (3)

Prerequisite: Poli Sci 509 or consent of instructor. Involves a review of the theory and practice of both federalism and its most operational manifestation, the intergovernmental grant-in-aid system. Political dynamics, growth of the system and proposals for reform will be analyzed.

528 Seminar in Public Administration and Policy (3)

Prerequisites: a course in basic statistics and Poli Sci 320 or 509. Interplay between public policy and program administration in federal government. Discussion of administrators' role in policy development, administrative discretion in implementing policy, use of political resources by administrators.

529 Seminar in Public Management Analysis (3)

Prerequisite: Poli Sci 523. Application of quantitative techniques to management and planning of public organizations. Topics include network analysis, capacity management, management information systems, productivity measurement, forecasting, costbenefit analysis, simulation and marketing.

530 Seminar in Cross-National Politics (3)

Prerequisites: consent of instructor. The integration of international relations and comparative politics, emphasizing the interdependence of nations and non-state actors in the world political system.

540 Seminar Readings in Political Philosophy (3)

Prerequisite: undergraduate preparation in political theory or philosophy. This course examines the foundations of contemporary political science through readings in the classics of political philosophy.

541 Seminar in Contemporary Political Theory (3)

Analysis of contemporary trends in the study of politics. Emphasis on behavioral political science, criticisms of it and current empirical approaches to the study of politics.

571 Seminar in Public Finance (3)

Prerequisites: Poli Sci 509. MPA students who have taken Poli Sci 421 for credit on study plan may not also take this course as part of study plan. Survey of the politics of taxing and spending at the national, state, and local levels. Deals with such topics as budgeting, New Federalism, the tax revolt, and budgetary reforms such as PPBS and ZBB.

572 Seminar in Public Sector Human Resource Management (3)

Prerequisite: Poli Sci 509 and graduate standing. MPA students who have taken Poli Sci 422 for credit on study plan may not also take this course as part of study plan. Examines the political and legal environments of public personnel management, the general and career civil services and political appointment system and introduces the students to such personnel functions as selection, position classification, performance evaluation and compensation.

580 Emergency Management in Public Administration (3)

Prerequisites: Poli Sci 509 or consent of instructor. A comprehensive review of the state-of-the-art in prevention, warning, evacuation, rescue and recovery systems. Covers the development of public policy relating to land use planning, recovery and issues of liability; intergovernmental relations and effective planning.

597 Project (3)

Prerequisite: consent of instructor.

598 Thesis (3-6) The state of the careers in a variety of

Prerequisite: consent of instructor.

599 Independent Graduate Research (1-3)

Prerequisite: consent of department chair. To be taken only after or concurrent with the completion of the required 15 units of graduate seminars.

Department of Psychology

Department Chair: Richard McFarland
Department Office: Humanities 830M
Advisement Office: Humanities 520
Graduate Office: Humanities 830L

Programs Offered
Bachelor of Arts in Psychology
Minor in Psychology
Master of Arts in Psychology
Master of Science in Psychology

Concentration in Clinical/Community Psychology

Faculty

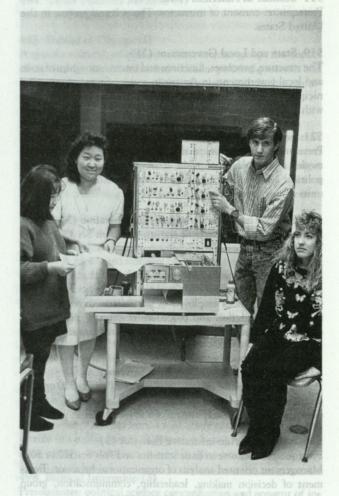
Frank Bagrash, Kay Bathhurst, Michael Birnbaum, Chris Cozby, Ernest Dondis, Peter Ebersole, Allen Gottfried, Daniel Kee, Dennis Keefe, Richard Lindley, Carol Lindquist, Richard Lippa, Richard McFarland, Douglas Navarick, David Perkins, Ronald Riggio, Michael Scavio, Don Schweitzer, William Smith, Edward Stearns, William Vandament, George Watson, Arthur Webber, Margaret White, Stanley Woll

Advisers

Undergraduate: William Smith and Richard Lindley
Graduate MA Coordinator: Daniel Kee
Graduate Clinical/Community: Carol Lindquist

INTRODUCTION

Psychology is a science that has as its central theme the study of behavior. Psychology involves studying about how we interact with one another and our environment. Psychology is practical; it is concerned with improving the quality of life. In order to achieve these ends psychologists work in a broad range of research and applied settings. The psychology major is designed to provide each student with a comprehensive overview of the major fields of psychology and methods used in psychological research. The major is also designed to assist the student in selecting elective courses which can form a concentration in an area of the student's interest. These specialty areas might include clinical/community, social, developmental/child, industrial/organizational, learning/cognitive and physiological psychology. The major provides a basis for careers in a variety of psychology related occupations including mental health agencies, hospitals, teaching, business and public organizations. The major also prepares students for graduate training in fields such as clinical psychology; marriage, family and child counseling; teaching; social work; law; business and management and public administration.



All students who declare psychology as their major should meet with one of the undergraduate advisement coordinators during their first semester to develop a study plan. Students should also obtain a copy of the Psychology Department Student Handbook from the department office. Early consultation with an adviser is especially important for those interested in pursuing graduate training, careers in psychology or related fields, teaching credentials or a double major or minor.

Community College Transfer Students: A maximum of nine lower division units of psychology courses may be applied toward the 38 units required for the psychology major. The nine units must fit the course description requirements listed in this catalog for Psych 101, 201 and 202. Additional lower-division units taken in psychology at a community college and approved by the university may be used for university credit for graduation.

Credential Information

The Department of Psychology offers both an approved waiver program for the multiple subject (elementary) teaching credential and an approved waiver program for the single subject (secondary) teaching credential.

Students interested in majoring in psychology and preparing for an elementary or secondary teaching credential should contact the psychology undergraduate advisement coordinator and the Office of Admission to Teacher Education.

BACHELOR OF ARTS IN PSYCHOLOGY

Lower Division (9 units required)

Psychology 101 Introductory Psychology (3) Psychology 201 Elementary Statistics (3)

Psychology 202 Research Methods in Psychology (3)

Upper Division (29 units required)

Required Courses (17 units)

One of the following four laboratory courses (3 units):

Psychology 303 Sensation and Perception (3)

Psychology 304 Comparative Animal Behavior (3)

Psychology 305 Information Processing (3)

Psychology 306 Physiological Psychology (3)

One of the following three courses (3 units):

Psychology 331 Psychology of Personality (3)

Psychology 351 Social Psychology (3)

Psychology 361 Developmental Psychology (3)

Each of the following five courses:

Psychology 300A Introduction to Computer Use in

Psychology (1)

Psychology 300B Statistical Computer Packages (1)

Psychology 302 Learning and Memory (3) Psychology 408 History of Psychology (3)

Psychology 461 Psychological Testing (3)

Elective Courses (12 units) 2 anibase or make imbA

A full range of options is available for the 12 units of psychology upper-division (300/400 level) electives. These courses should form an area of concentration for students and should be selected in consultation with a psychology adviser.

Special Requirements

Each course counted toward the major must be completed with a grade of C or higher. No more than a total of three units of either independent study or independent research (Psychology 498 or 499) may be applied toward the major. No more than three units of internship (Psychology 495) may be applied toward the major. A minimum of 18 units counted toward the psychology major must have been completed at CSUF.

MINOR IN PSYCHOLOGY

Lower Division (6 units)

Psychology 101 Introductory Psychology (3)

Psychology 202 Research Methods in Psychology (3)

Upper Division (6 units)

One of the following courses (3 units):

Psychology 302 Learning and Memory (3)

Psychology 303 Sensation and Perception (3)

Psychology 304 Comparative Animal Behavior (3)

Psychology 305 Information Processing (3)

Psychology 306 Physiological Psychology (3)

Psychology 363 Experimental Child Psychology (3)

One of the following courses (3 units):

Psychology of Personality (3) Psychology 331

Psychology 341 Abnormal Psychology (3)

Psychology 351 Social Psychology (3)

Psychology 361 Developmental Psych (3)

Electives (9 units)

Students completing the minor may choose 9 units of upperdivision psychology courses or 6 units of upper-division courses and Psychology 201 Elementary Statistics.

Special Requirements

The special requirements that are listed under the major apply to the minor as well.

Other Minors

The Psychology Department is a participant in minors in gerontology and women's studies. Course work that is applied toward the major may not also be applied toward the minor.

MASTER OF ARTS IN PSYCHOLOGY

The degree program provides advanced course work and research training in core areas of psychology. Completion of the MA can facilitate application to Ph.D. programs in psychology and provides skills important to careers in education, the health profes-Oraquate Office of the Laychology Department of the sonic

Admission to Graduate Standing: Classified

An applicant who meets the requirements listed below, in conjunction with the development of an approved study plan, may be evaluated for classified graduate standing.

- A. Satisfaction of the general prerequisites for graduate studies which include a baccalaureate degree from a regionally accredited institution and a grade point average of at least 2.5 in the last 60 semester units attempted (see the catalog section on Graduate Admissions for complete details).
- B. A 2.5 overall grade-point average and a 3.0 average in psychology.
- C. Approved lower-division equivalent courses involving the following psychology classes:
 - 1. Elementary Statistics (e.g. Psychology 201)
 - 2. Research Methods (e.g., Psychology 202)
- D. Approved upper-division equivalent course work which includes classes in the history of psychology (e.g., Psychology 408) and advanced statistics (e.g., Psychology 465). Also four additional psychology classes completed from the areas below; classes must be from different areas and one must be a lab class:
 - 1. Learning and Memory | Immuning 2 100 vaclators
 - 2. Cognition/Information processing
 - 3. Sensation & Perception/Physiological wolld and losse?
 - 4. Social/Personality
 5. Developmental and the spale of the spale of

 - 6. Abnormal/Clinical project in the project of the
- E. Satisfactory performance in the General and Advanced/Subject Psychology Tests of the Graduate Record Examination (GRE).
- F. Three satisfactory letters of recommendation. One must be from a psychology professor.
- G. Passing the university's Examination in Writing Proficiency (EWP).

Invitation to the program is based on competitive evaluation of qualifications and is at the sole discretion of the Psychology Department's Graduate Studies Committee. New students are admitted to the Master of Arts program primarily in the fall, some spring admissions may be accommodated. Both the university and department applications must be completed on time for full consideration. Application deadlines for the return of all materials are March 15 for the fall semester and November 1 for the spring semester. Departmental forms may be obtained from the Graduate Office of the Psychology Department

Admissions to Graduate Standing; Conditionally Classified was the orange of the soo diese

It may be possible for an applicant with minimal deficiencies in prerequisite requirements, but who is otherwise highly qualified, to be admitted conditionally to the program. Provisions for the removal of these deficiencies would be outlined as part of the conditional acceptance. When the deficiencies have been successfully removed, a regular invitation to join the program as a classified graduate student may be offered after review by the department's Graduate Studies Committee.

Study Plan

The Master of Arts in Psychology requires a minimum of 30 units of approved graduate work, including the completion and acceptance by the department of a written thesis which has been defended orally.

Each student, in consultation with the graduate coordinator and a faculty mentor, will develop a program of study. This program will be outlined on an official university study plan form and submitted to the department's Graduate Studies Committee for review and approval.

Required classes for the M.A. in Psychology include the following 3 unit classes:

	YOU OH YOU WEETHA BOARD IN Un	uits
Psychology 500	Issues and Perspectives in	
Psychological	Research	3
Psychology 599	Independent Graduate	
Psychology 510	Experimental Design	3
	level Seminars	

Two 500-level seminars from the following list are required:

Psychology	520	Seminar:	Experimental Psych
Psychology	521	Seminar:	Personality modal 208 yeolodyall
Psychology	522	Seminar:	Developmental Psych
Psychology	523	Seminar:	Social Psych
			One of the following three courses

Psychology 400-level Content Classes9

Three 400-level psychology classes must be 108 vgolodoval completed from the following categories:*

Experimental/Cognitive ACOL vgolodove9
Social/Personality/Industrial (1) vgolodove9 Psychology 300B Statistical Community with the Statistical Community Developmental Sychology 302 Learning and Monocky (2) Quantitative
Sensory Processes/Physiological

Psychology 500-Level Elective Class
and Psychology 598 Thesis Research (3 units)
or Psychology 598 Thesis Research (3/3 units) 6
Total

*A list of qualifying classes for each category is available from the psychology graduate office. 500-level classes in psychology may be substituted with permission of the graduate adviser.

Students must complete Psychology 500 within their first two semesters in the program. To be advanced to candidacy for the M.A. Degree, students must have received a grade of "B" or better in all study plan classes and maintain a 3.0 grade-point average overall. A successful oral defense of the thesis is also required.

Following university regulations, a maximum of five years is normally allowed for completion of course work and other requirements.

For futher details, contact the graduate program adviser of the Department of Psychology.

MASTER OF SCIENCE IN CLINICAL/COMMUNITY PSYCHOLOGY .

The Master of Science requires a two-year commitment to fulltime course work. It is an applied program in clinical and community psychology providing an introduction to the research literature, psychodiagnosis, and practical, supervised experience in individual, group, family, marital, child and behavior therapy. The program provides preparation for professional Ph.D. programs or professional work in a variety of mental health settings. The program also contains the course work required for the Marriage, Family, Child Counseling (MFCC) license as it is currently defined.

Admission to Graduate Standing: Classified

An applicant who meets the following requirements may be considered for classified graduate standing upon development of an approved study plan:

- A. satisfaction of the general prerequisites for graduate work which include a baccalaureate degree from a regionally accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted (see section of this catalog on Graduate Admissions for complete statement and procedures);
- B. a 2.5 overall grade point average and a 3.0 average in psychology;
- C. a major in psychology or approved equivalent course work of 33 units involving the following courses:

Lower Division (9 units)

Psychology 101 Introductory Psychology Psychology 201 Elementary Statistics

Psychology 202 Research Methods in Psychology

Upper Division (24 units)

Psychology 302 Learning and Memory

Psychology 303 Sensation and Perception

or Psychology 304 Comparative Animal Behavior

or Psychology 305 Information Processing

or Psychology 306 Physiological Psychology

Psychology 331 Psychology of Personality

or Psychology 351 Social Psychology

or Psychology 361 Developmental Psych

Psychology 341 Abnormal Psychology

Psychology 461 Psychological Testing Nine elective units chosen from courses at the upper-divi-

sion level

- D. satisfactory performance in the General and Advanced Psychology Tests of the Graduate Record Examination;
- three satisfactory letters of recommendation;
- passing the university's EWP (Examination in Writing Proficiency).
- G. paid or volunteer experience in human services.

New students are admitted to the Master of Science program in the fall. Those to be admitted will be selected in the spring from the most qualified applicants at the sole discretion of the department's Graduate Studies Committee. In addition to the university application, a departmental application form, obtainable by mail from the Psychology Department's graduate office, must be completed and returned to that office. The application deadline for the return of all materials including GRE scores is March 15 for fall semester entry.

Admission to Graduate Standing: Conditionally Classified

It may be possible for applicants who have minimal deficiencies in prerequisite requirements, as detailed above, but who are otherwise highly qualified, to be admitted in conditionally classified graduate standing, with provisions made for removal of deficiencies prior to the granting of classified standing. For further information, consult the graduate program adviser.

Study Plan

The Master of Science in Psychology requires 48 units of approved graduate work, done in a four-semester sequence, including the completion and acceptance by the Psychology Department's Graduate Studies Committee of a written comprehensive paper.

Students in consultation with their program adviser, shall develop a study plan which will be submitted to the Graduate Studies Committee of the Department of Psychology for approval.

Course Requirements
Fall — First Year Units
Psychology 544A Psychodiagnostics
Psychology 548 Psychotherapy Techniques 3
Spring — First Year
Psychology 543 Advanced Lifespan Development
Fall — Second Year
Psychology 560 Therapeutic Approaches to Treatment of Children
Psychology 563 Law and Ethics
Spring — Second Year
Psychology 562 Group Therapy
*A 400- or 500-level elective. The elective would be chosen from:

Psychology 465 Advanced Psychology Statistics (3) Psychology 467 Multivariate Analyses (3) Psychology 474 Medical Psychology (3) Psychology 475 Psychopharmacology (3) Psychology 310 Experimental Design (3) Psychology 522 Seminar: Developmental Psychology (3) Psychology 567 Human Sexual Dysfunction (1) Substance Abuse (2) Psychology 568

An Alternative elective chosen with the approval of the graduate adviser.

It should be noted that successful completion of the course work is not sufficient to permit continuation in the program. In addition, faculty judgment must be satisfied with respect to the student's effectiveness as well as professional and ethical behavior in dealing with potential clients. Continuation in the program is contingent upon satisfactory performance in all aspects of the program as judged by the Graduate Studies Committee.

Psychology Courses

101 Introductory Psychology (3)

Basic concepts, problems, and methods in psychology. Perception, learning, measurement, cognitive processes, development, motivation, personality, abnormal behavior, physiological and social psychology. (CAN PSY 2)

110 Reasoning and Problem Solving (3)

The nature of critical thinking, models and strategies; common fallacies of reasoning, self-regulation in the thinking process; application of critical thinking to specific areas.

201 Elementary Statistics (3)

Descriptive statistics, hypothesis testing, analysis of variance, correlational techniques.

202 Research Methods in Psychology (3)

Prerequisite: Psychology 101 and prior completion or concurrent enrollment in Psychology 201. The fundamentals of psychological research methods. Participation in conducting experiments, analyzing data, interpreting results, and writing research reports. (2 hours lecture, 3 hours laboratory)

210 Psychology of Military Leadership (3)

Psychological theories, models and concepts of leadership and management as applied to the military. Style and role of the military leader in applying principles of motivation, organizational behavior and participative group management. No credit toward the major in psychology. (Same as Military Science 210).

289 Computer Methods for the Social Sciences (3) (Same as Sociology 289)

300A Introduction to Computer Use in Psychology (1)

Prerequisite: completion of general education math requirement. General introduction to the use of computer systems, data input, use of application software and the role of computers in psychological research, counseling, testing and instruction. Not open to students who have completed Computer Science 112 or Psychology/Sociology 289.

^{**}Electives required for the MFCC program.

300B Statistical Computer Packages (1)

Prerequisites: Psychology 201 and 300A or concurrent enrollment. General introduction to statistical analysis using the computer. Selection of statistical programs, data file construction, coding, and selection of data analysis commands will be addressed. The Company of the relief to the

302 Learning and Memory (3)

Prerequisites: Psychology 101, 201, 202, or consent of instructor. Theoretical and experimental investigations in learning, memory, thinking, problem solving and motivation. Written research reports required. (2 hours lecture, 3 hours laboratory)

303 Sensation and Perception (3)

Prerequisites: Psychology 101, 201, 202 or consent of instructor. Theoretical and experimental investigations in sensory and perceptual processes, including vision and audition. (2 hours lecture, 3 hours laboratory)

304 Comparative Animal Behavior (3)

Prerequisites: Psychology 101, 201, 202 or consent of instructor. Theoretical and experimental investigations in animal behavior, including humans. The interspecies comparisons of behavior and sensory, motor, endocrine and neural structures. (2 hours lecture, 3 hours laboratory; one or more field trips required)

305 Information Processing (3)

Prerequisites: Psychology 101, 201, 202 or consent of instructor. Theoretical and experimental investigations of the representation, structure, and utilization of information in humans. (2 hours lecture, 3 hours laboratory)

306 Physiological Psychology (3)

Prerequisite: Psychology 202 or Biological Science 101 or equivalent. Anatomy and physiology of the nervous system, role of neural and humoral agents in complex behavior. Relation between behavioral and biological processes. (2 hours lecture, 3 hours laboratory)

310 Psychology of Women (3)

Prerequisite: Psychology 101. Survey of theories, research and implications for the psychological study of gender differences and similarities, particularly as pertains to the psychological characteristics and problems of women.

311 Educational Psychology (3)

Prerequisite: Psychology 101. Application of psychological research and theory to educational processes, including learning, motivation, individual differences, teaching methods and evaluation.

312 The Psychology of Human Sexual Behavior (3)

Prerequisite: Psychology 101. Topics in human sexual behavior integrating sexuality as social, clinical, developmental and biological. Gender identity, sexual behavior, love and attraction, sexual deviation, causes and treatment of sexual dysfunction, sexual exploitation.

331 Psychology of Personality (3)

Prerequisite: Psychology 101. Broad survey of research, theory and assessment techniques in the area of personality.

341 Abnormal Psychology (3)

Prerequisite: Psychology 101. Symptoms, causes, treatment and prevention of mental problems; the anxiety disorders, the personality disorders, psychophysiological disorders, psychoses, substance use disorders, sexual disorders and organic disorders.

350 Environmental Psychology (3)

Prerequisite: Psychology 101 or consent of instructor. Theory, research and method in the study of behavior-environment relationships. The influence of such variables as population density and urban design on human behavior.

351 Social Psychology (3)

Prerequisite: Psychology 101. Phenomena related to social behavior and social influences on behavior. Topics include social perception and cognition, attitudes and attitude change, attraction, altruism, aggression, interpersonal influence, and group processes.

361 Developmental Psychology (3)

Prerequisite: Psychology 101. Psychological and physical development. Theories, methods and research findings regarding the development of perception, cognition, learning, personality and social behavior.

362 Psychology of Aging (3)

Prerequisite: Psychology 101. Characteristics of humans during the adult years. Topics include physical, intellectual, cognitive, personal, social and psychological development, vocational and family changes, retirement and death.

363 Experimental Child Psychology (3)

Prerequisites: Psychology 101 and two of the following: Psychology 361, Child Development 312, 320, 330 or 325. Research methodology in developmental psychology. Critical examination of empirical studies. Design and excution of an empirical investigation. (2 hours lecture, 3 hours laboratory)

364 Intelligence: A Life-span Perspective (3)

Prerequisite: Psychology 101 or consent of instructor. Nature, determinants and consequences of intelligence. Sociopolitical aspects of the testing movement. Stability, change and prediction of IQ, social and biological influences, educational and occupational consequences, genetic vs. environmental controversy.

391 Industrial/Organizational Psychology (3)

Prerequisite: Psychology 101. Traditional and current psychological principles and techniques in industrial and business settings. Selection, placement, training, work motivation, human factors, environmental influences, system safety, product liability, problems of people at work, organizational development and consumer behavior.

408 History of Psychology (3)

Prerequisite: Completion of nine units of upper division psychology courses. The development of psychology from early times to the present; major traditions and conceptual issues.

413 Perception (3)

Prerequisite: Psychology 303 or consent of instructor. Advanced treatment of contemporary theoretical and research problems in perception.

415 Cognitive Processes (3)

Prerequisites: Psychology 302, 303 or consent of instructor. Theory and research with respect to problem solving, thinking, concept learning, language, decision making and judgment, cognitive structure, cognitive development.

417 Psycholinguistics (3)

Prerequisite: six hours of upper-division work in psychology or linguistics, or consent of the instructor. Psychological and linguistic approaches to the study of language. Innate and learned aspects of language development, motivational and social aspects of language, symbolism, language disorders and universals. (Same as Linguistics 417)

431 Theories of Personality (3) John Mark Jerromgolavo (1)

Prerequisite: Psychology 331. Traditional and contemporary theories of personality, including psychoanalytic, humanistic-existential, behavioral, trait and social interaction approaches.

451 Experimental Social Psychology (3)

Prerequisites: Psychology 201 or equivalent, 202 and either 351 or 391. Topics in social behavior, group processes and influences. Laboratory experiments in attitude formation and change; group processes such as communication, problem solving, and norm formation; interpersonal influence and perception. (2 hours lecture, 3 hours laboratory)

454 Social Cognition (3) Monthly Philad Islanding A Ent

Prerequisite: Psychology 351 or 415. Theory and research on the processing and representation of social information. Cognitive and social psychology, including impression formation, attribution theory, non-verbal communication, sociolinguistics, developmental issues.

461 Psychological Testing (3)

Prerequisite: Psychology 201 or equivalent. Intelligence, aptitude, interest, and personality testing. Theory, construction, evaluation, interpretation and uses of psychological tests.

464 Advanced Developmental Psychology (3)

Prerequisites: Psychology 361 or Child Development 312 and consent of instructor. Review and analysis of major theoretical and empirical issues in child developmental psychology.

465 Advanced Psychological Statistics (3)

Prerequisite: Psychology 201. General linear model, regression, analysis of variance techniques and applications to research design and evaluation of data.

466 Social Science Computer Applications (3)

Prerequisites: Psychology 201, 300A, 300B or consent of instructor. Computers in psychology. Batch processing; interactive computing; on-line experimentation.

467 Multivariate Statistics for Psychology (3)

Prerequisite: Psychology 465 or consent of instructor. Bivariate and multivariate regression, multivariate analysis of variance, discriminant analysis, factor analysis, structural equations, and applications to psychological research.

470 Behavior Modification (3) and amod 2) beautiper stronger

Prerequisites: Psychology 101, 341 or consent of instructor, and junior or senior standing. Recommended: Psychology 202 or 302. Exposition and evaluation of theory, research and procedures for human behavior modification.

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ory, thinking, problem solving and motivation. Written research

472 Community Psychology (3)

Prerequisites: Psychology 101, 341, or consent of instructor. Theory and research. A survey of a variety of programs developed within this model; their service delivery aspects and the methodology of program evaluation.

473 Sleep, Dreams, and Behavior (3)

Prerequisites: Psychology 306, 331, 341 or consent of instructor. Scientific evidence regarding the role of sleep and dreams in controlling awake behavior is reviewed. Course topics include historical views and theories, the neurobiology of sleep and dreams, and their relationships to cognition, personality, and psychopathology.

474 Medical Psychology (3) woolodove I leotoology (17, 2008

Prerequisites: Psychology 101 and 341 or consent of instructor. Behavioral medicine; neuropathology; clinical neuropsychology; psychosomatic, nutritional, endocrine and developmental distween behavioral and biological processes. (2 hours lecteration

475 Psychopharmacology (3) (yourselded about Prerequisite P. 1 Prerequisite: Psychology 306 and 341 or 15 units of biological science. Basic principles underlying the use of drugs and related substances to modify experience and behavior. Psychological, medical and social potentialities and limitations of these techniques.

476 Developmental Psychopathology and Assessment (3)

Prerequisite: Psychology 341 or 361 or consent of instructor. Psychopathology from a developmental perspective. Pathogenic influences during childhood. Causes, classification, incidence and research on behavior disorders and problems in childhood. Assessment approaches and techniques.

481 Survey of Clinical Psychology (3)

Prerequisites: Psychology 331, 341 or consent of instructor. Methods, diagnosis, therapeutic techniques, research, educational requirements, professional requirements, ethics.

495 Undergraduate Fieldwork (3) (5) send sonstatus 832

Prerequisites: 9 units of psychology and consent of instructor. Supervised experience in an off-campus location. Class meetings will be spent discussing the internship experience both from a practical and a theoretical standpoint. Application forms must be completed prior to enrollment. No more than three units of credit towards the major.

496 Student-to-Student Tutorials (1-3)

Consult "Student-to-Student Tutorials" in this catalog for more complete course descriptions.

498 Independent Laboratory Research (3)

Prerequisites: completion of one upper-division laboratory course in psychology and consent of instructor. Study plan must be approved by university census date. Individual laboratory investigation under direction of a faculty member. No more than three units of credit towards the major.

499 Independent Study (1-3)

Prerequisites: completion of at least one upper-division laboratory course in psychology and consent of instructor. Study plan must be approved by university census date. Individual library study under direction of a faculty member. No more than three units of credit toward the major.

499RIA Research in Action (4)

Prerequisite: consent of instructor. Applied research experience in appropriate public or private organizations, under faculty supervision. Group meetings and individual conferences with instructor.

500 Issues & Perspectives in Psychological Research (3)

Prerequisite: admission to the psychology graduate program and consent of instructor. Current theoretical, professional, and methodological issues in psychology.

501 Advanced General Psychology (3)

Prerequisite: admission to a psychology graduate program or consent of instructor. To prepare beginning graduate students for more advanced courses. Intensive coverage of physiological psychology and two of the following three topics: personality, social, or developmental psychology.

510 Experimental Design (3)

Prerequisites: Psychology 201, 465 and admission to a psychology graduate program or consent of instructor. Principles and methods of planning and carrying out systematic investigations on the behavior of complex organisms, interdependence of experimental design and statistical evaluation of results. Practice in formulation of testable hypotheses.

511 Clinical Research Design (3)

Prerequisites: admission to the M.S. Clinical/Community Program or consent of the instructor. Examination of the research designs and statistical methods used in psychology in general and in clinical psychology in particular. Students will present individual review papers as a part of the course requirements.

520 Seminar: Experimental Psychology (3)

Prerequisites: admission to a psychology graduate program or consent of instructor. Content of seminar varies each semester but is devoted to an examination of current topics within experimental psychology. May be repeated for credit.

521 Seminar: Personality (3)

Prerequisites: admission to a psychology graduate program or consent of instructor. Central problems in personality. May be repeated for credit.

522 Seminar: Developmental Psychology (3)

Prerequisites: admission to a psychology graduate program or consent of instructor. Theory and research in developmental psychology. May be repeated for credit.

523 Seminar: Social Psychology (3)

Prerequisites: admission to a psychology graduate program or consent of instructor. Central problems and major theories in the field of social psychology. May be repeated for credit.

543 Advanced Lifespan Development (3)

Prerequisites: admission to the M.S. Clinical/Community program or consent of the instructor. In-depth study of advanced lifespan development, theory and research.

544A Psychodiagnostics A (3)

Prerequisite: admission to Master of Science Clinical/Community program or consent of instructor. A skills course in assessment issues, giving and scoring objective diagnostic testing including WAIS-R, WISC-R, Stanford-Binet and MMPI. Integration of testing with other diagnostic material. (2 hours lecture, 3 hours laboratory) and the last the state of batteries and bush the last the batteries but the el

544B Psychodiagnostics B (3)

Prerequisites: admission to Master of Science Clinical/Community program or consent of instructor and successful completion of Psychology 544A. A laboratory course covering administration, scoring, and interpretation of traditional projective tests and relevant issues in testing assessment and research. (2 hours lecture, 3 hours laboratory) 562 Sexual Dysinoction (1) in yo

545 Advanced Psychopathology (3)

Prerequisites: Psychology 341 or equivalent and admission to either the Master of Science Clinical/Community program or the Master of Arts Psychology program or consent of instructor. Indepth study of diagnosis, etiology theories, research and prevention of adult and child psychopathology.

547 Theories of Psychological Intervention (3)

Prerequisite: admission to Master of Science in Clinical/Community program or consent of instructor. In-depth coverage of psychotherapy. Principle theoretical approaches covered are: Psychodynamic, humanistic, and behavioral/cognitive behavioral.

548 Psychotherapy Techniques (3)

Prerequisites: admission to the M.S. Clinical/Community Program or consent of the instructor. A skills course in conducting diagnostic interviews and basic therapeutic techniques. Role playing and video feedback will play a central role in course. (2 hours lecture, 3 hours laboratory)

549 Marriage, Family and Child Therapy (3)

Prerequisites: satisfactory completion of the first semester of the Master of Science Psychology program. Marriage, family and child therapy: theory, techniques and research.

560 Therapeutic Approaches to Treatment of Children (3)

Prerequisites: completion of first year in M.S. Clinical/Community Program or consent of instructor. Specific therapy techniques, including behavioral, and general approaches to the treatment of children.

561 Community Psychology (3)

Prerequisite: admission to graduate program or admission to the Master of Science Clinical/Community program or consent of instructor. Community psychology; its historical and philosophical roots, theoretical framework, research within the area, and current practical applications with particular emphasis on crosscultural issues.

562 Group Therapy (3)

Prerequisite: satisfactory completion of the first year of work in the Master of Science Clinical/Community program or consent of instructor. Theory, research, and practice in group therapy.

563 Law and Ethics in Clinical Psychology (2)

Prerequisites: Psychology 481 or equivalent and admission to the Graduate program or consent of instructor. In-depth study of the legal and ethical issues pertaining to clinical psychology. Existing standards, laws, as well as practical aspects will be examined.

564 Child Abuse Reporting (1)

Prerequisites: completion of first year of M.S. Clinical/Community program. In-depth look at the ethical and legal issues pertaining to child abuse and the requirements of mental health professionals to report child abuse.

567 Sexual Dysfunction (1)

Prerequisites: enrollment in a graduate program or consent of instructor. Symptoms, causes, treatment and prevention of sexual disorders in males and females. Aging, sex and disability, drug complications. Ethical and legal issues, sex roles, sexual identity, psychological, physiological and social-cultural issues. Treatment and research.

568 Substance Abuse (2) And Andrew Substance Abuse (2)

Prerequisite: admission to the graduate program or consent of instructor. The impact of alcoholism and drug abuse on the individual, family and community, clinical skills in the diagnosis and treatment of substance abuse, and research on diagnosis and

569 Cross Cultural Psychology (2)

Prerequisites: completion of first year of M.S. in Clinical/Community program or consent of instructor. An in-depth study of cross-cultural issues as they apply to clinical psychology, specifically psychotherapy. Practical, research and theoretical issues will be examined.

575 Applied Developmental Psychology (3)

Prerequisite: graduate standing and consent of instructor. Contemporary topics merging research and practice in the fields of developmental and child clinical psychology. Topics include: parent/child competency training, pediatric psychology, prevention strategies for at risk children/families, children and the law, and role of developmental psychology in social policy. 594A,B Fieldwork (3,3)

Prerequisite: satisfactory completion of first year's work in the Master of Science in Clinical/Community program. Supervised clinical work in mental health agencies. (Minimum of 12 hours field experience per week.)

597 Graduate Project (1-2)

Prerequisite: formal advancement to candidacy and consent of instructor. Development and submission of a major cumulative paper under the direction of a faculty member that integrates learning in the program with an applied area of student interest. Students select topics under the direction of a faculty member.

598 Thesis Research (3 or 6) was an added to be a supported

Prerequisites: formal advancement to candidacy and consent of instructor. Development of a proposal for a major piece of empirical research, execution of the study, analysis of the results and writing of a thesis.

599 Independent Graduate Research (3)

Prerequisites: admission to a psychology graduate program and consent of instructor. Empirical research in a selected area of psychology. Designed, conducted and written by the student with the collaboration of a member of the faculty. May be repeated for credit.



Department of Religious Studies

Department Chair: Benjamin Hubbard Department Office: Education Classroom 622

Programs Offered Bachelor of Arts in Religious Studies Minor in Religious Studies Minor in Christian Studies Minor in Jewish Studies Minor in Peace Studies

Daniel Brown, Benjamin Hubbard, George Saint-Laurent, James Santucci, Bradley Starr

Adviser

All programs: James Santucci

INTRODUCTION

Religious studies examines the spiritual quest of humankind, especially as it has manifested itself in the world's living religions. These include Hinduism, Buddhism, Judaism, Christianity, Islam, American Indian religion and non-traditional movements such as Scientology and the Unification Church. No other academic field looks at the origins, sacred writings, rituals, beliefs and worldview of the various religions for their own sake rather than as an aspect of another field of study.

Within a public university, religion must be approached with academic objectivity and without favoritism for any one tradition. Yet, religion must also be studied with sensitivity and empathy for different religions and for the millions of believers whose lives are shaped by their faith. Religious studies is also an interdisciplinary field which draws on the work of social scientists, historians, philosophers and literary scholars in attempting to understand the religious quest. Hence - because of the need for objectivity, sensitivity and an interdisciplinary approach to knowledge - studying religious traditions develops habits of mind that are very important for life in our multi-cultural society. Furthermore, a familiarity with the world's religions is becoming more and more necessary for an understanding of church-state issues in America and of geopolitical conflicts in such areas as northern Ireland, the Mideast, India, Tibet and elsewhere.

The Bachelor of Arts in Religious Studies is designed for those who (1) want a humanities undergraduate background focusing on religion as a preparation for further study in such fields as law, social work, counseling and government service; (2) wish to pursue graduate studies in religion with the aim of teaching and/ or doing research in the subject; (3) are considering a career in the ministry/rabbinate or in religious education.

Minors in religion are offered in four areas depending on a student's particular interest: Religious Studies (an interfaith or comparative emphasis), Christian Studies (an emphasis on Christianity in its many forms), Jewish Studies (an emphasis on the Jewish tradition) and Peace Studies (an emphasis on the causes of societal conflict and on its resolution, especially by pivotal religious figures).

Prizes in Religious Studies

Two graduating seniors are recognized each year with the James O'Shea/Joseph Kalir Award for Outstanding Scholarship and the James Parkes/Morton Fierman Award for Student Achievement (for service to the department and university and/or for interfaith work within and outside the university). In addition, the Donald Gand Award is given annually to a non-graduating religious studies major for academic achievement.

BACHELOR OF ARTS IN RELIGIOUS STUDIES

The Bachelor of Arts in Religious Studies consists of 45 units including the language requirement. Courses in other schools and departments may be acceptable upon consultation with the departmental adviser. Each course counted toward the major must be completed with a grade of C or higher.

Language Requirement (6 units)

One year of the classic languages of religious literature (e.g., Arabic, Greek, Hebrew, Latin or Sanskrit) required of all majors. One semester of two different languages may be taken.

Lower-Division Requirements (12 units)

Religious Studies 200 Introduction to Christianity (3)
Religious Studies 210 Introduction to Judaism (3)
Religious Studies 250 The Religion of Islam (3)
Religious Studies 270 Introduction to the Oriental
Religions (3)

Upper-Division Requirements (27 units)

Core Requirements: 9 units

Religious Studies 300 Methodologies of Religious Studies (3)

Religious Studies 485 Major Religious Thinkers and Concepts (3,3) (Student must take two sections covering different topics.)

Western Religions: 6 units, (3 units from each section) Section A: Scripture

Religious Studies 330 Hebrew Scriptural Studies (3) Religious Studies 331 New Testament Studies (3)

Section B: Development of Thought

Religious Studies 335 Christianity and Judaism (3)
Religious Studies 345A History and Development of
Christian Thought: The Beginning to 1274 (3)

Religious Studies 345B History and Development of Christian Thought: 1275 to the Present (3)

Religious Studies 346A History and Development of Jewish Thought: Biblical Origins to Maimonides (3)

Religious Studies 346B History and Development of Jewish Thought: 1204 to the Present (3)

Religious Studies 350 Major Christian Traditions (3)

History 405 History of the Jews (3)

History 417B Roman Empire (3)

History 421A History of the Christian Church to 1025 (3)

History 421B History of the Christian Church from 1025 to Present (3)

History 425B The Reformation (3)

History 466A Islamic Civilization: Arab Era (3)

Asian and Non-Western Religions: 6 units

Religious Studies 347A History and Development of Hinduism to 1200 (3)

Religious Studies 347B History and Development of Hinduism from 1200 (3)

Religious Studies 370 Modern Non-Traditional Religious Movements in America (3)

Religious Studies 485 Major Religious Thinkers and Concepts (3)*

History 465A History of India (3) Philosophy 350 Oriental Philosophy (3)

*When content deals with Oriental topic.

Religious Experience/Phenomenology of Religion: 6 units

Religious Studies 310 Introduction to Peace Studies (3)

Religious Studies 343 Religion and Current Ethical Issues (3)

Religious Studies 376 Dimensions of Religion (3)

Religious Studies 380 The Religious Roots of

Nonviolence (3)

Religious Studies 390 Religion and the Mass Media (3) Religious Studies 428 Great Religious Peacemakers (3)

Religious Studies 475 Anxiety, Guilt and Freedom (3)

Religious Studies 476 Understanding the Holocaust (3)

Religious Studies 481 Religion and Politics in the American Experience (3)

Religious Studies 487 Seminar in Peace Studies (3)

Anthropology 305 Anthropology of Religion (3)

Philosophy 348 Philosophy of Religion (3)

Sociology 458 Sociology of Religious Behavior (3)

Writing Requirement | Soud(4) & grandeH lamamahme SOI

The course requirement of the university upper-division baccalaureate writing course is met through Religious Studies 485.

MINOR IN RELIGIOUS STUDIES

The minor in religious studies is composed of 24 units in religious studies exclusive of the general education requirements.

Lower Division (12 units)

Religious Studies 110 Comparative Study of the World's Great Religions (3)

Any introductory course in psychology, sociology, anthropology, philosophy, etc., with the approval of the department chair.

Any two of the following:

Religious Studies	200	Introduction to Christianity (3
Religious Studies		Introduction to Judaism (3)
Religious Studies	250	The Religion of Islam (3)
Religious Studies	270	Introduction to the Oriental
Religions (3)		Trible of the succession

Upper Division (12 units)

Religious Studies 485 Major Religious Thinkers and Concepts (two sections with different content) (3,3)

Six additional units in a package emphasis (i.e., Christianity, Judaism, Eastern Religions, etc.)

MINOR IN CHRISTIAN STUDIES

Students minoring in Christian studies are required to take 21 units beyond general education courses. These units would be distributed as follows:

Required courses (9 units)

Religious Studies 110	Comparative Study of the World's
Great Religions (3)	
Religious Studies 200	Introduction to Christianity (3)
Religious Studies 201	Origins of The New Testament (3)

Elective courses (12 units)

Six units are to be taken outside of religious studies; six units must be taken in religious studies.

Religious Studies 331 New Testament Studies (3)
Religious Studies 335 Christianity and Judaism (3)
Religious Studies 343 Religion and Current Ethical Issues (3)
Religious Studies 345A History and Development of Christian Thought: The Beginning to 1274 (3)
Religious Studies 345B History and Development of Christian Thought: 1275 to the Present (3)
Religious Studies 350 Major Christian Traditions (3)

Religious Studies 481 Religion and Politics in the American Experience (3)

Religious Studies 485 Major Religious Thinkers and Concepts* (3)

Art 302 Medieval Art (3)

Art 431 Renaissance Art (3)

Art 432 Baroque Art (3)

Comp Lit 312 The Bible as Literature (3)

History 421A The History of the Christian Church to 1025 (3)

History 421B The History of the Christian Church from 1025 to the Present (3)

History 425B The Reformation (3)

History 483 American Religious History (3)

Music 351A History and Literature of Music (3)

Music 351B History and Literature of Music (3)

Philosophy 348 The Philosophy of Religion (3) Sociology 458 Sociology of Religious Behavior (3)

MINOR IN JEWISH STUDIES

Students minoring in Jewish studies are required to take at least one semester of Hebrew (4 units) as well as at least 21 units for a total of 25 units beyond their general education requirements. These units would be distributed as follows:

Lower Division (10 units)

Hebrew 101 Fundamental Hebrew (4)

Religious Studies 110 Comparative Study of the World's Great Religions (3)

Religious Studies 210 Introduction to Judaism (3)

Upper Division (15 units)

Nine units must be in religious studies; six units outside religious Poli Sci 456 The National Security Establishment (3) r. saibuts

Religious Studies 330 Hebrew Scriptural Studies (3)

Religious Studies 335 Christianity and Judaism (3)

Religious Studies 343 Religion and Current Ethical Issues (3)

Religious Studies 346A History and Development of Jewish

Thought: Biblical Origins to Maimonides (3)

Religious Studies 346B History and Development of Jewish Thought: 1204 to the Present (3)

Religious Studies 476 Understanding the Holocaust (3)

Religious Studies 485 Major Religious Thinkers and Concepts* (3)

American Studies 411 The White Ethnic in America (3) Anthropology 345 Peoples of the Middle East and North Africa (3)

Anthropology 346 Archaeology of the Holy Land (3) Comparative Literature 312 The Bible as Literature (3)

History 405 History of the Jews (3)

History 415B Hellenistic Civilization (3)

History 467 The Middle East in the 19th Century (3)

History 468 Middle East in the 20th Century (3)

^{*}When content is Christian.

^{*}When content is Jewish

MINOR IN PEACE STUDIES

Students minoring in peace studies are required to take a total of 21 units beyond general education courses. These units are distributed as follows:

Core Requirements (6 units)

Religious Studies 310 Introduction to Peace Studies (3) Religious Studies 487 Seminar in Peace Studies (3)**

Required Areas (9 units)

American Studies 405 Images of Crime and Violence in American Culture (3)

Communications 481 Mass Communication and Conflict (3) History 407 War and Civilization (3)

Poli Sci 453 International Conflict, War and Peace (3)

Religious Studies 428 Great Religious Peacemakers (3)

Sociology 385 Family Violence (3)

Speech Comm 220 Interpersonal Conflict Management (3)

Electives (6 units)

Courses must be selected from two of the disciplines included These units would be distributed as follows:

Afro-Ethnic Studies 335 History of Racism (3)

American Studies 360 Cultural Radicalism in America (3) Chicano Studies 450 The Chicano and Contemporary Issues (3)

Management 441 Labor-Management Relations (3)

Philosophy 310 Ethics (3) (Minu C.I.) Moisfeld 1549U

Philosophy 365 Social Philosophy (3)

Poli Sci 456 The National Security Establishment (3)

Poli Sci 461 The United Nations and Other International Organizations (3)

Poli Sci 491 International Internship* (3)

Psychology 351 Social Psychology (3)

Religious Studies 343 Religion and Current Ethical Issues (3)

Religious Studies 380 The Religious Roots of

Nonviolence (3)

Sociology 372 Social Futures (3)

Any 499 Independent Study ** (3)

Religious Studies Courses

101 Fundamental Hebrew A (4) (Same as Hebrew 101)

102 Fundamental Hebrew B (4)

(Same as Hebrew 102)

110 Comparative Study of The World's Great Religions (3) (Same as Philosophy 110)

200 Introduction to Christianity (3) and applied an applied and

The Christian scriptures and their background in the light of modern exegesis; the Synoptic Gospels, written creeds and liturgical formulae associated with the Orthodox, Roman and Protestant communions.

201 Origins of the New Testament (3)

The sources and content of the New Testament writings which reflect the life and beliefs of the Christians in the first century of the Common Era, including literary and historical criticism.

210 Introduction to Judaism (3) antwolfol and to cart yet A

The lewish tradition — its scriptures, laws, customs, holidays and worldview in their historical setting.

246A Basic Hatha Yoga (2) (Same as Physical Ed 246A)

246B Intermediate Hatha Yoga (2) (Same as Physical Ed 246B) (estimu S1) noisiviCI rang []

250 The Religion of Islam (3) The Professional Proposed (4)

The religion of Islam, its background and main teachings: the rise of Islam, the caliphate, Islamic theology, teachings, mysticism Judaism, Eastern Religions, etc.) and philosophy.

270 Introduction to the Oriental Religions (3)

The main teachings of a major South Asian, Far Eastern, or 'Oriental' religion per semester. Such religions as Buddhism, Hinduism, Taoism, Shintoism, and Zoroastrianism will be discussed. May be repeated for credit with different subject matter.

300 Methodologies of Religious Studies (3)

Prerequisite: Religious Studies 110 or consent of instructor. Religious studies as an academic discipline; contributions from history, sociology, psychology, phenomenology and anthropology. Definition and function of religion, its varieties, its categories and the methodologies by which it is studied.

301 Sanskrit (4) - Sanskrit (4) - Sanskrit (4) - Sanskrit (5) Sanskrit (5) - Sanskrit (6) - Sanskrit (6) - Sanskrit (7) - Sanskrit (7) - Sanskrit (8) - Sans

(Same as Linguistics 301)

310 Introduction to Peace Studies (3)

A fundamental orientation towards the academic study of the peaceful resolution of conflict on the personal, inter-personal, and societal levels, with special attention to peacemaking as an ethical and religious value.

325 African-American Religion (3) The Induced Translated O

(Same as Afro-Ethnic Studies 325)

^{**}May be taken only after 12 units in Peace Studies have been completed.

^{*}With coordinator's approval in view of actual content.

[&]quot;Directed by Instructor of students' choice.

330 Hebrew Scriptural Studies (3)

Specific areas of Hebrew Scriptures such as major and minor prophets, Psalms, values of wisdom writers, books of the Old Testament. May be repeated for credit with different subject content.

331 New Testament Studies (3)

Specific areas of the New Testament such as the Synoptic Gospels, The Pauline Corpus, The Johannine Corpus, etc. May be repeated for credit with different subject matter.

335 Christianity and Judaism (3)

Differences and similarities between Christianity and Judaism. The age of transition from Judaism to Christianity; origins and destinies.

343 Religion and Current Ethical Issues (3)

An examination of contemporary ethical issues as they relate to the teachings of selected religious traditions on questions such as abortion, euthanasia, environmental pollution, global hunger, homelessness, pornography and censorship, racism, sexism, and violence.

345A History and Development of Christian Thought: The Beginning to 1274 (3)

Christian thought from apostolic times to the death of Thomas Aguinas; Old and New Rome, the Great Councils, the Middle Ages, and the marriage of faith and reason.

345B History and Development of Christian Thought: 1275 to the Present (3)

Christian thought from the death of Thomas Aquinas to the present; the cultural and philosophical backgrounds of the successive ages of scholasticism, the renaissance, baroque, reason and revolution, and the modern world.

346A History and Development of Jewish Thought: Biblical Origins to Maimonides (3)

Jewish thought from biblical times to the death of Moses Maimonides (1204); Hebrew scriptures, Roman era, Talmud, and Spanish Jewry.

346B History and Development of Jewish Thought: 1204 to the Present (3)

Jewish thought from the death of Maimonides to the present; expulsions and persecutions, mysticism, emancipation, modern anti-Semitism, and Zionism.

347A History and Development of Hinduism to 1200 (3)

Prerequisite: Religious Studies 110 or 270 or consent of instructor. Hindu thought from the Veda to 1200. Subjects will include the Upanisads, a survey of the orthodox ritual and legal traditions, the six major philosophical traditions, and the beginnings of sectarianism.

347B History and Development of Hinduism from 1200 (3)

Prerequisite: Religious Studies 110 or 270 or consent of instructor. Hindu thought from 1200 to the present. Subjects will include the sects and philosophers in the devotional tradition, nineteenth century reformationalism, religious reformers, and the contributions of the Theosophical Society and M.K. Gandhi.

348 Philosophy of Religion (3)

(Same as Philosophy 348)

350 Major Christian Traditions (3)

Catholicism, Protestantism, Eastern Christianity, or Post-Reformation Communities; historical development and self-understanding, liturgy, creeds, moral norms, canonical laws and outstanding figures. May be repeated for credit with different content.

370 Modern Non-traditional Religious Movements in America (3)

Beliefs, history, ritual and organizational make-up of non-traditional modern religions in America, such as Scientology, the Unification Church, Hare Krishna (ISKCON) and Rajneeshism as presented by guest speakers. Discussion of "cult," "sect" and the occult will comprise portion of course.

376 Dimensions of Religion (3) School legislating adv source

The great themes of religious thought viewed objectively and subjectively in history and in the present day. Seminar and discussion presentation.

380 The Religious Roots of Nonviolence (3)

Prerequisites: Religious Studies 110, 310 or consent of instructor. An investigation of the foundations of nonviolence as taught within the major religious traditions: Judaism, Christianity, Islam, Hinduism, and Buddhism.

390 Religion and the Mass Media (3)

Prerequisite: American Studies 201 or Communication 233 or History 180 or Religious Studies 110 or consent of instructor. Religion reporting in the secular media; the religious press in America; the influence of the media, both secular and religious, on the shaping of society's values; ethical dilemmas faced by reporters.

405 History of the Jews (3)

(Same as History 405)

419 Shamanism in Cross-Cultural Perspective (3) (Same as Anthropology 419)

421A History of the Christian Church to 1025 (3) (Same as History 421A)

421B History of the Christian Church From 1025 to the Present (3)

(Same as History 421B)

425B The Reformation (3) transpolared bas stored 6148

(Same as History 425B)

428 Great Religious Peacemakers (3)

Prerequisites: Religious Studies 110, 310, or 345B, or consent of instructor. Biographies and writings of modern peacemakers whose vision has been inspired by moral teachings of their religious traditions. Analysis of their concrete contribution to non-violent resolution of conflict.

437 American Indian Religions and Philosophy (3) (Same as Afro-Ethnic Studies 437)

458 Sociology of Religious Behavior (3) (Same as Sociology 458)

476 Understanding the Holocaust (3)

The ordeal of European Jewry; the beginnings and the end of an organized policy of genocide; impressions of eye witnesses; thoughts about the holocaust after a generation.

481 Religion and Politics in the American Experience (3) Prerequisites: Poli Sci 100. An examination of the relationship of politics and religion, especially in the U.S. The colonial and constitutional experience, supreme court decisions on religious issues, the principal theorists of moral discourse in the public forum. Contemporary issues of concern. (Same as Poli Sci 481)

380 The Religious Roots of Nonviolence (3)

Freequisites: Religious studies 110, 310 or conselled frauncing.

An investigation of the foundations of nonviolence as faught within the major religious traditions, Judaism, Christianity, Islam, Hinduism, and Buddhism.

Islam, Hinduism, and Buddhism.

390 Religion and the Mass Media (3)

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Presequence: American Studies 201 or Communication 233 or illustory 180 or Religious Studies 110 or consent of instruction, Religion reporting in the secular media; the religious press in America; the influence of the media, both secular and religious, on the shaping of society's values; ethical dileminal faced by reporters.

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405 History of the Jews (3)
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419 Shamanism in Cross-Cultural Perspective (3) (Same as Anthropology 419)

421A History of the Christian Church to 1025 (3)
(Same as History 421A) asibut Religious Studies as History 421A)

STRINGS STRIPS STRIPS STRIPS From 1025 to the 101 Present (3)

Present (3)

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(Sume as History #21B)

483 American Religious History (3) (Same as History 483)

485 Major Religious Thinkers and Concepts (3)

Prerequisite: approval of undergraduate adviser. Religious thinkers and concepts dealing with Western, Eastern and non-traditional religious ideas from ancient to modern times. Fulfills university upper-division baccalaureate writing requirement. May be repeated with different content.

487 Seminar in Peace Studies: (3)

Prerequisite: 12 units of Peace Studies courses. Seminar in Peace Studies. Theoretical and practical approaches to personal, interpersonal and societal peacemaking. Integrates and builds upon previous classes in peace studies.

499 Independent Study (1-3)

Supervised research projects in religious studies to be taken with consent of instructor and the department chair. May be repeated for credit.

345A History and Development of Christian Thoughts
The Beginning to 1274 (3)

Aquinas, Old and New Rome, the Great Councils, the Middle Ages and the marriage of faith and reason.

Ages and epithems ages and reason.

345B History and Development of Christian Thought: 1275 to the Present (3) Christian thought from the death of Thomas Agumas to the

tesent, the cultural and philosophical backgrounds of the occessive ages of scholasticism, the renaissance, broodur, reason and revolution, and the modern world.

346A History and Development of Jewish Thought:
Biblical Origins to Maimonides (3)
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ention base time to so or cultisons its varieties (RWN) flylofings that was final slegges for subsets in its studied.

346B History and Development of Jewish Thought: 1204 to the Present (3)

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system throught from the death of Majmonaes to the presents spulsions and persecutions, mysticism, emanchation, modern not-Semitism, and Zionishaeshare assets a metallicated Office.

347A History and Development of Hindhism to 1200 (3) Pherequisite: Religious Studies 1 f0 or 270 or consent of instructor. Hindu thought from the Veda to 1200. Subjects will include

the Upanisads, a survey of the orthodox ritual and legal traditions, the six major philosophica maditure, and the beginning of sectarianism.



Russian and East European Area Studies Program

Program Coordinator: Robert Feldman (History) Program Office: McCarthy Hall 103

Program Offered

Bachelor of Arts in Russian & East European Area Studies

Faculty

Ellen Cochrum (Foreign Languages and Literature), David Depew (Philosophy), Robert Feldman (History), Charles Frazee (History), Ronald Helin (Geography), Jane Hipolito (English), Karl Kahrs (Political Science), Joyce Pickersgill (Economics), Ted Smythe (Communications), Bruce Wright (Political Science)

INTRODUCTION

The Russian and East European Area Studies program is an interdisciplinary program designed for students whose interests and career objectives are in government service, communication, international business or education. The program provides students already majoring in an existing discipline or department (i.e., history, business, biology, etc.) the opportunity to have a second major. In addition, the program fulfills the various cultural objectives common to any liberal arts program.

BACHELOR OF ARTS IN RUSSIAN AND EAST **EUROPEAN AREA STUDIES**

To qualify for this major, a student must complete (1) 20 units of Russian language or their equivalent, (2) 24 units of upperdivision Russian area courses from at least four of the following fields: communications, comparative literature, economics, geography, philosophy, political science, history, foreign language, (3) 15 units of upper-division course work in a related discipline to be determined in consultation with a Russian area counselor. Students are encouraged to have these units apply toward a major in a traditional discipline.

The basic lower-division courses also may be used to meet general educational requirements.

Russian and East European Area Studies Courses

All courses within the Russian and East European area studies program originate in other departments within the university. Students should refer to the department originating the course for description.

Communications

431 Mass Communications in Communist Systems (3)

Comparative Literature

373 Masters of Russian Literature (3)

374 Soviet Literature (3)

Economics

331 The Soviet Economy (3)

Foreign Languages

Russian 101 Fundamental Russian-A (5)

Russian 102 Fundamental Russian-B (5)

Russian 203 Intermediate Russian-A (5)

Russian 204 Intermediate Russian-B (5)

Geography

338 Soviet Union (3)

History

419 The Byzantine Empire (3)

434A Russia to 1890 (3)

434B Russian Revolution and the Soviet Regime (3)

437 East Europe (3)

490 Senior Research Seminar (3)

(When topic is Russian Revolution or Polish History)

Philosophy

382 Marx and Marxism (3)

Political Science

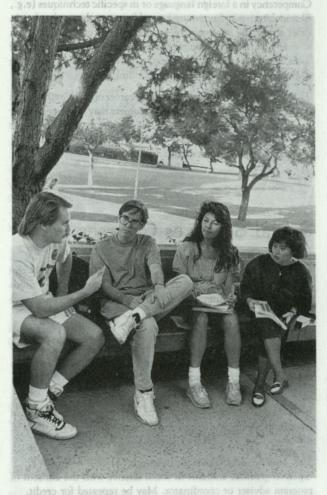
430 Government & Politics (of the U.S.S.R.) (3)

431 Government & Politics (of East Europe) (3)

443 Theory and Philosophy of Marxism (3)

452 Foreign Policy of the U.S.S.R. (3)

Social Sciences Program



Program Coordinator: Ronald Riggio (Psychology) Program Office: McCarthy Hall 103

Program Offered Master of Arts in Social Sciences

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Advisory Board

The Advisory Board consists of one faculty representative from each participating department or program, two student representatives, and the dean of graduate studies or a representative (exofficio). The participating departments are: Sociology, History, Geography, Afro-Ethnic Studies, Political Science, American Studies, Chicano Studies, Criminal Justice, Anthropology, Psychology, Philosophy and Economics.

INTRODUCTION

Social Sciences is an interdisciplinary program providing for individualized programs of graduate study which emphasize the examination of human behavior and its relations to social institutions. These programs have the common purpose of exposing students to diverse methodologies, establishing the relationship between disciplines, and providing the student with the opportunity to explore a selected area from a variety of intellectual perspectives.

The social sciences include the following related fields: Afro-Ethnic studies, American studies, anthropology, Chicano studies, criminal justice, economics, geography, history, philosophy, political science, psychology and sociology.

This degree is designed to provide interdisciplinary insights and tools for those interested in (1) pursuing careers in government and business; (2) elementary, secondary, or community college teaching in the area of social studies or any of the social sciences; (3) a graduate program to complement the undergraduate degree in social science, liberal studies, or any single department major within the social sciences; or (4) a custom-tailored program of advanced study in the liberal arts.

ADMISSION TO THE PROGRAM

A student may be admitted to the program in conditionally classified graduate standing with a baccalaureate from an accredited institution and a minimum grade-point average of 2.5 in the last 60 semester units attempted. Classified standing requires an undergraduate major or its equivalent in one of the social sciences, a GPA of 3.0 in upper division social sciences courses, and substantial work in the social science fields selected for study.* The graduate adviser will determine qualifications in these areas and may require 3-12 units of course work beyond the study plan to compensate for deficiencies. A study plan must be developed and approved for admission to classified graduate standing.

*The prerequisite for "substantial work" will vary among departments and according to the specific courses within some departments. Lack of substantial work in one or more fields will not ordinarily bar a student from admission but will result in one or more additional courses being required before the student may be classified.

MASTER OF ARTS DEGREE IN SOCIAL SCIENCES

Of the 30 units of adviser-approved courses on the study plan, at least 18 must be in appropriate work at the 500-level. Courses in the multidisciplinary core are selected in consultation with the graduate program adviser and faculty in their areas of interest and should correspond to the focus in the thesis. Every student will prepare a thesis on a topic approved by the graduate program adviser and the student's committee. The thesis must reflect the student's interdisciplinary effort.

Social Sciences Core (6 units)

Social Sci 500 Social Science Theories (3)

Social Sci 501 Social Science Methods (3)

Multidisciplinary Core (18-21 units)

Course work must be taken in at least two social science fields and include a minimum of nine 500-level units.

Thesis (3-6 units)

Social Sci 598 Thesis (3-6)

Competency in a foreign language or in specific techniques (e.g., film-making) may be required in addition to the study plan in cases where the student's committee and the graduate program adviser consider such competencies necessary for the particular focus. Such requirements will be stated no later than the time the student is advanced to classified standing.

This degree program relates to various career options in the social sciences. Work experience in these careers may be gained under an internship course in one of the social sciences, and the project may be tailored to a career option. For further information, consult the graduate program adviser.

Social Sciences Courses

500 Social Science Theories (3)

A philosophical and theoretical basis for graduate work in the areas of social science. The interrelationships among the various social sciences as they relate to social, physical and political environments.

501 Social Science Methods (3)

Analytical comparison of the historical, humanistic and scientific methodologies in the social sciences. Contemporary trends in the social sciences methods.

598 Thesis (3-6)

Individual direction by committee of faculty in research and preparation of a written research essay which will reflect an interdisciplinary program of study.

599 Independent Graduate Research (3)

Open to graduate students in social science with the consent of program adviser or coordinator. May be repeated for credit.

Department of Sociology



Sociology 303 Statistics for the Social Sciences (344 ybar)8

Department Chair: Ronald E. Hughes Department Office: Humanities 730M

Programs Offered metal of social project, either there in the best project, either there is the best project. Bachelor of Arts in Sociology delvisque and drive helder has ans Minor in Sociology Master of Arts in Sociology Emphasis in Gerontology as mes does be railto ed Illiw associates Emphasis in Applied Social Research

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Takenori Aso, John Bedell, Tony Bell, Dennis Berg, Jonathan Brower, Carol Copp, Helaine Feingold, Rosalie Gilford, Ronald Hughes, Hilla Israely, Perry Jacobson, Pat Lackey, Michael Mend, G. Nanjundappa, Rae Newton, Myron Orleans, Bartolemeo Palisi, Houshang Poorkaj, Lorraine Prinsky, Gerald Rosen, C. Michael Stuart, Clarence Tygart, Ernest Works, Troy Zimmer

Advisers

Undergraduate: Tony Bell and G. Nanjundappa Graduate: Myron Orleans

of adviser approved electives tailored to NOITOUDORTMI

Sociology is the study of social life: the nature and structure of groups, institutions and societies. Sociology attempts to identify and understand the social functions and processes of human behavior. Sociology's subject matter ranges from the intimate family to the hostile mob, from crime to religion, from divisions of race and social class to the shared beliefs of a common culture. from the sociology of work to the sociology of sport, from the study of conformity to the study of deviance, from childhood to old age and death.

The sociology major is designed to provide undergraduate preparation leading to careers in social work, politics, law, public administration, urban and environmental planning, public relations, personnel, criminal justice, counseling and other service professions. The Bachelor of Arts in Sociology will also prepare a student for advanced studies in several areas including sociology, social welfare, environmental studies, education, public health and urban planning.

Field Experience

The major in sociology offers an internship to provide supervised field experience. This permits students to apply relevant sociological knowledge in practical settings. The course may earn from one to three units. An independent study is also offered for this purpose. It allows students to expand upon individual interests within the field of sociology. This study may be in the form of an individual research project, either library or field. Conferences are scheduled with the supervising faculty member as necessary to provide for maximum benefits. No more than nine units of any combination of internships and independent studies may be applied toward the thirty-six units required for the major. Senior seminars will be offered each semester on topics of current sociological relevance. The seminar is open to students of all disciplines with senior classification who have had upper-division course work in the area. The topics will vary from semester to semester depending upon the specialty and training of the instructor. This course may be repeated for credit.

CREDENTIAL INFORMATION

Requirements for sociology majors with a Multiple Subject Credential objective are available in the Sociology Department office.

BACHELOR OF ARTS IN SOCIOLOGY

Students majoring in sociology are required to complete a minimum of 36 units of course work in sociology. Included within the 36 units are 12 units of courses required of all majors and 24 units of adviser approved electives tailored to each student's career objectives. In addition to the minimum of 36 units, students must satisfy the 3 unit writing requirement listed below. At least 27 units must be upper division. A total of nine adviser-approved units may be transferred from a community college.

Required Courses (12 units)

Sociology 101	Introduction to Sociology (3)
Sociology 301	Theories of Social Behavior (3)
Sociology 302	Social Research Methods (3)
Sociology 303	Statistics for the Social Sciences (3)

Writing Requirement (3 units)

Sociology 308	Writing for Sociology	Students (3)
English 301	Advanced College Writi	ing (3)	(87)(0

English 360 Scientific & Technical Report Writing (3)

English 365 Legal Writing (3)

or an adviser-approved upper-division writing course.

Electives (24 units)

Students are to select a minimum of 24 units of elective course work in sociology consistent with their career objectives.

All courses counting toward the major must be taken for a letter grade. Sociology 101, 301, 302, 303 and Sociology 308 or an alternative writing course must be passed with a grade of C or better.

MINOR IN SOCIOLOGY

Required Courses (9 units)

Sociology 101	Introduction to Sociology (3)
Sociology 301	Theories of Social Behavior (3)
Sociology 302	Social Research Methods (3)

Elective Courses (12 units):

Students select 12 units of upper-division course work in sociology.

MASTER OF ARTS IN SOCIOLOGY

The Sociology Department accepts graduate students in the fall and spring semesters of each academic year. The program for this degree provides advanced study in general sociology. It offers an opportunity to broaden one's knowledge of society, to strengthen skills of sociological analysis and to do research in depth in an area of particular interest. It may be used as preparation for study toward the doctorate in sociology, for community college teaching, participation in research or for a variety of positions in business and industry, corrections, the community or government.

The program is composed of a 15-unit core sequence which all students must complete and 15 units of electives to be chosen by the graduate student in consultation with the graduate adviser. It is designed to facilitate close contact between students and faculty, to encourage students to accept a role in the selection of course offerings, and to participate in all areas of departmental decision making.

Prerequisites

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Students must meet the university requirements for admission to graduate standing. Please see the "Graduate Regulations" section of this catalog for policies and procedures on admission of graduate students.

In order to be accepted as a sociology graduate student, the applicant must have a grade-point average of 2.75 or better in the most recent 60 units of college work and a grade-point average of 3.0 (B) or better for all work in sociology. A minimum of 18 upper-division units in sociology is required, including the following courses or their equivalents:

Sociology 301	Theories of Social Behavior (3)
Sociology 302	Social Research Methods (3)
Sociology 303	Statistics for the Social Sciences (3

Courses in methods, statistics and theory must have been completed within the last five years prior to application. Two letters of reference attesting to the applicant's academic potential must be sent to the graduate coordinator.

Students will be accepted as conditionally classified sociology majors with either course or GPA deficiencies. Deficiencies must be corrected within one year of admission to the program.

Students will be classified upon the fulfillment of the above prerequisites, and after an approved study plan has been developed, in consultation with the Graduate Committee.

The study plan for the degree must be completed with a minimum grade-point average of 3.0 with no course grades below C. The study plan is approved by the student's adviser and includes the following:

Core Course Sequence (12 units)

Sociology 502A Research Process (3)

Sociology 501 Seminar: Topics in Societal Structure and Process (3)

Sociology 502B Research Process (3)

Sociology 581 Advanced Theories of Social Behavior (3) (Sociology 502A and 581 are designed to be taken during the

first semester of graduate studies.)

Electives (15 units)

Electives to be chosen from the following categories consistent with each student's goals, subject to approval by the graduate adviser and limited by the maximum number of units set for each category.

500-level graduate seminars (maximum 15 units)

400-level Sociology courses (maximum 6 units)

Sociology 596 Community College Symposium (3)

or Sociology 597 Project: Agency Placement (3)

(maximum 3 units)

Sociology 599 Independent Study (1-3) (maximum 6 units)

Thesis (3 units)

Sociology 598 Thesis (3)

For further information, consult the graduate program adviser.

EMPHASIS IN GERONTOLOGY

This emphasis within the M.A. in Sociology prepares students for careers as planners, policy makers, service providers, administrators, and researchers who work in business, industry, government offices and community programs with or on behalf of the elderly.

Study Plan

The study plan for the degree must be approved by the Gerontology adviser and must include the following:

Core Course Sequence (12 units)

Sociology 501 Seminar: Topics in Societal Structure and Process (3)

Sociology 502A Research Process (3)

Sociology 502B Research Process (3)

Sociology 581 Advanced Theories of Social Behavior (3)

Gerontology Sequence (9 units)

Sociology 495 Senior Seminar: Contemporary Issues in Aging (3)

Sociology 506 Theories of Aging (3)

Sociology 597 Project: Agency Placement (3)

Electives (6 units)

Adviser-approved 400- or 500-level courses in Sociology or related fields.

Sociology 598 Thesis (3 units) in a older persons, the desapoparent of p

Sociology 598 Thesis (A Gerontological Topic)

EMPHASIS IN APPLIED SOCIAL RESEARCH

This emphasis within the M.A. in Sociology prepares students for research analyst positions in business firms, government agencies, educational institutions and medical institutions.

Study Plan

The study plan for the degree must be approved by the Applied Research advisor and must include the following:

Core Course Sequence (12 units)

Sociology 501 Seminar: Selected Topics in Societal Structure and Process (3)

Sociology 502A Research Process (3) Sociology 502B Research Process (3)

Sociology 581 Advanced Theories of Social Behavior (3)

Applied Research Sequence (9 units)

Using Computers in Sociology (3) Sociology 484

Seminar: Evaluation and Applied Survey Sociology 501

Research (3)

Sociology 597 Project: Agency Placement (3)

Electives (6 units)

Adviser-approved 400- or 500-level courses in Sociology or related fields.

Sociology 598 Thesis (An Applied Research Topic)

Sociology Courses

101 Introduction to Sociology (3)

The basic concepts of sociology: includes social interaction, culture, personality, social processes, population, social class, the community, social institutions and sociocultural change. (CAN SOC 2)

102 Social Problems (3)

The extent, causes and consequences of a number of social problems, 20th-century America: the changing society. (CAN SOC

133 Introduction to Gerontology (3)

Multidisciplinary overview of the characteristics, strengths and problems of older persons; the development of gerontology as a solution to problems of aging; services to older adults; working with older persons in various settings; education for careers in gerontology.

151 An Introduction to Family Relationships (3)

An introductory practical guide to family living. Topics include dating, courtship, children, financial problems, grandparents, in-laws, problems associated with careers of parents, effectively coping with family interactions.

289 Computer Methods for the Social Sciences (3)

Digital computer systems and programming, student-written programs in BASIC or BASIC-PLUS; the computer's impact on society and social sciences; simulation and model building; information networks, artificial intelligence and other topics. (Same as Psychology 289)

300 Introduction to Social Welfare (3)

Prerequisite: Sociology 101 or consent of instructor. The history, philosophy and development of thought in social welfare; the social work methods (casework, group work and community organization); social work as a career objective; social work practice; availability of employment and qualifications necessary.

301 Theories of Social Behavior (3)

Prerequisite: Sociology 101 or consent of instructor, The main schools of sociological thought, both European and American. Systems of theory, methodology of theorists, cultural change and social institutions.

302 Social Research Methods (3)

Prerequisite: Sociology 101 or consent of instructor. Topics include: research design, methods of gathering data, the role of theory in research, sampling methods and problems, data processing and analysis.

303 Statistics for the Social Sciences (3)

Prerequisites: Sociology 101 and Mathematics 110 or equivalent or consent of instructor. The techniques for the elementary statistical analysis of social data.

305 Techniques of Social Welfare (3)

Prerequisites: Sociology 101 and 300 or consent of instructor. Methods and theories underlying social work practice. History, values and philosophy of the profession. Methods and skills. Casework issues and trends in social work practice.

308 Writing for Sociology Students (3) and tol male yours and T

Prerequisite: Sociology 101 or consent of instructor. Composition, sources of information and sociological writing for different audiences. Satisfies the classroom portion of the upper-division writing requirement for sociology majors.

309 Computers in Sociology (3)

Prerequisite: Sociology 101 or consent of instructor. Introduction to computer applications in Sociology. Training in use of CSUF mainframe computers, software and microcomputers. Topics include: survey analysis with SPSS; constructing and editing data files and word processing.

333 Sociology of Aging (3)

Prerequisite: Sociology 101 or consent of instructor. Analysis of population age structure; theories of aging; aging in family, economic, political, religious, educational, leisure/esthetic institutions. Aging and ethnicity. Social policy and the future of aging.

341 Social Interaction (3)

Prerequisite: Sociology 101 or consent of instructor. The social and sociopsychological dimensions of group behavior and the socialization of the individual. Social interaction and its impact on the individual and personality formation. Or visological to

345 Sociology of Communication (3)

Prerequisite: Sociology 101 or consent of instructor. The social processes involved in communicating with symbols - verbal, visual and "body-language" - in interpersonal settings and the mass media.

348 Collective Behavior (3)

Prerequisite: Sociology 101 or consent of instructor. Characteristics of crowds, mobs, publics. Analysis of social movements and revolutions, their relation to social unrest and their role in developing and changing social organization. Joy annual as reserved

350 Social Relationships and Emotions (3)

Prerequisite: Sociology 101 or consent of instructor. Consideration of social relationships emphasizing emotional bonds as the primary integrating force, including interactions between emotions and relationships.

360 Human Ecology: Problems and Solutions (3)

Prerequisite: Sociology 101 or consent of instructor. Interaction between human populations and their environments in the context of functional interdependence involving population, environment, organization and technology. Examination of causes, consequences and solutions to modern day major environmental problems. Sociology to sense the problems and the problems.

361 Population Problems (3)

Prerequisite: Sociology 101 or consent of instructor. Population composition, growth and movement. Social factors affecting birth rates, death rates and migration. The population of the United States and selected areas of the world.

371 Urban Sociology (3) Prerequisite: Sociology 101 or consent of instructor. The population and ecology, patterns of growth, institutions, characteristic social interaction, values and problems of the urban community.

372 Social Futures (3)

Prerequisite: Sociology 101 or consent of instructor. The tools for projecting future probabilities and possibilities. The broad social and moral implications of scientific and technological advances. Procedures and consequences of social design.

381 Sociology of Human Sexuality (3)

Prerequisite: Sociology 101 or consent of instructor. Study of the sociological aspects of human sexuality, socio-historical and comparative perspectives; relationships of sexual interaction to life cycle, gender, race, class and power.

385 Family Violence (3)

477 Social Behavior (3) Prerequisite: Sociology 101 or consent of instructor. For professions dealing with victims and/or perpetrators of family violence. Explores causes, intervention and prevention of all types of abuse: child, sibling, spouse and parent. Examines theories, research findings and practical field application.

400 Sociological Internship (1-3) an englustron of gain J 404

Prerequisite: Sociology 101 or consent of instructor. Supervised field experience permitting application of relevant sociological material in practical settings. or the velocity domain and stab bits

407 Women in Contemporary Society (3)

Prerequisite: Sociology 101 or consent of instructor. Women in American society. Sex role socialization, sexism in institutions, labor force participation, female health and sexuality.

408 Sexual Abuse in American Society (3)

Prerequisites: Sociology 101, 466 or consent of instructor. Sociological examination of sexual victimization and their consequences. Patterns of forcible rape, sexual abuse of children, effects of sexual abuse on victims and abusers, and responses of various social groups to sexual victimization are presented.

409 Issues and Applications of Basic Statistics (3)

Prerequisite: Sociology 303 or consent of instructor. Comparative analysis of the approaches and issues in analyzing social science data using the output from a microcomputer statistical package. Topics include assessments of parametric, nonparametric, descriptive and inferential statistics for univariate, bivariate and multivariate distributions.

411 Criminology (3) (E) solost xod to vactorized Och

Prerequisite: Sociology 101 or consent of instructor. The extent, causes and control of criminal behavior. The criminal law, causal factors and theories, correctional institutions, probation and parole, and preventive efforts.

451 Sociology of the Family (3) secology 124 413 Juvenile Delinquency (3)

Prerequisite: Sociology 101 or consent of instructor. Juvenile delinquency as a social problem. Sociological study of the causes of delinquent behavior, and programs of control, treatment and prevention.

414 Sociology of Public Health (3) and to vandologe and See

Prerequisite: Sociology 101 or consent of instructor. The social and organizational context of health care in the American community: social forces, processes and relationships which influence or determine the nature of health service.

415 Sociology of Corrections (3) columbiant leigoe is as londer

Prerequisite: Sociology 101 or Sociology 411 or 413 or consent of instructor. Current problems and programs in probation, parole and correctional institutions. For students planning careers in corrections.

416 Sociology of Alcoholism (4)

Prerequisite: Sociology 101 or consent of instructor. Sociological analysis of alcoholism. The socio-emotional causes and consequences of this type of drug addiction. (3 hours seminar; 2 hours

431 Minority Group Relations (3) (E) assertiff is made 324

Prerequisite: Sociology 101 or consent of instructor. Examines the development and current conditions of minority/majority relations through study of social, political and economic causes and consequences of prejudice and discrimination. Evolutionary and revolutionary movements for change will be studied.

433 Aging and Social Services (3) Prerequisite: Sociology 333 or consent of instructor. Sociological analysis of social problems of aging with special emphasis on strategies of intervention and barriers to service utilization. Critical examination of community service delivery systems. Review of career opportunities and qualifications required.

436 Social Stratification (3) person has essued Isologolodovan

Prerequisite: Sociology 101 or consent of instructor. Social class structures and their functions. Styles of life; determinants of class status; vertical social mobility; change in class systems.

446 Aging and Sexuality (3)

Prerequisite: Sociology 101 or consent of instructor. Impact of bio-psycho-social dynamics of aging on sexuality and affectual dimensions of marriage in later years; explicit forms and process of sexual expression in old age; singlehood, widowhood, homosexuality; sexuality in institutionalized elderly.

450 Sociology of Sex Roles (3)

Prerequisite: Sociology 101 or consent of instructor. The effect of traditional and nontraditional sexual stereotypes on attitudes and behavior within the family, the educational system, the economic system and the legal system.

451 Sociology of the Family (3)

Prerequisite: Sociology 101 or consent of instructor. The family as a social institution. Historical and cross-cultural perspectives; social change affecting marriage and the family; analysis of American courtship and marriage patterns; the psychodynamics of family life.

452 The Sociology of Education (3)

Prerequisite: Sociology 101 or consent of instructor. Education as a social process and a social institution. The relationship between education as a social process and a social institution, between education and sociology, the social functions of education. The socialization process, the school and the community, and the school as a social institution. A social services of the social services of the services of th

453 Child in American Society (3)

Prerequisite: Sociology 101 or consent of instructor. The child's role in America peer group participation, sibling rivalry and sibling order. The societal attitudes toward the child's place in society.

455 Medical Sociology (3)

Prerequisite: Sociology 101 or consent of instructor and upper division standing. A sociological perspective for interpreting medicine and medical behavior.

456 Mental Illness (3) (2) another a good whoming 183

Prerequisite: Sociology 101 or consent of instructor. Sociological analysis of the process of diagnosis, recognition and treatment of mental illness.

458 Sociology of Religious Behavior (3)

Prerequisite: Sociology 101 or consent of instructor. Religious behavior examined by social science theories. Religious rituals/ beliefs to cope with anxiety and powerlessness before natural forces and social structures and processes. Religion's contributions to individual identity, societal order and change. (Same as Religious Studies 458)

459 The Sociology of Marital Dissolution (3)

Prerequisite: Sociology 101 or consent of instructor. The socialpsychological causes and consequences of voluntary marital dissolution (separation, divorce). Topics include: the erosion of attachment, personal identity changes, changing and new relationships with others, starting over, dating again, sexuality changes, loneliness, anxieties.

460 Sociology of Death and Dying (3)

Prerequisite: Sociology 101 or consent of instructor. Dying as a social process; functions of bereavement behavior; the grief process; fear of death and dying; death related rituals, demographic aspects of mortality; American death acceptance-denial controversy.

465 Law and Society (3)

Prerequisite: Sociology 101 or consent of instructor. The law and lawyers in the context of human society. Sociological analysis of the law and society; law as formal social control, social change, legal profession.

466 Deviant Behavior (3)

Prerequisite: Sociology 101 or consent of instructor. Topics include; drug addiction, sexual deviance, delinquency, alcoholism, mental illness and life style.

467 Sociology of Sport (3)

Prerequisite: Sociology 101 or consent of instructor. The nature, position, functions and growing importance of sport in contemporary industrial society. The relationship between structure, variety and extent of sport activity and other institutional sectors in society.

473 Formal Organizations (3)

Prerequisite: Sociology 101 or consent of instructor. Schools, hospitals, industries, prisons and government industries. Selfactualization and alienation, human relations, communication, leadership, conflicts within and between organizations and impact on democratic institutions and social change.

477 Social Behavior (3)

Prerequisite: Sociology 101 or consent of instructor. The basic structures of various levels of social groups will be studied. The common and unique qualities of friendship, families, voluntary associations, complex organizations, communities and societies will be compared.

484 Using Computers in Sociology (3)

Prerequisites: Sociology 101, 302, 303, or consent of instructor. "Canned" statistical programs in data analysis. Research design and data preparation relevant to computer analysis.

495 Senior Seminar (3)

Prerequisite: Sociology 101 senior classification. Open to students who have had the upper division coursework in the area of the seminar. The seminar will depend upon the specialty and training of instructor. May be repeated for credit. Consult current class schedule for topics.

499 Independent Study (1-3)

Prerequisites: Sociology 101, at least 12 units of sociology and consent of instructor. An individual research project, either library or field. The student must enroll with an instructor whose recognized interests are in the area of the planned independent study. Conferences with the instructor as necessary and the work culminated in one or more papers. May be repeated for credit. Presequence School 30 of consent of manufactor Consent

501 Seminar: Topics in Societal Structure and Process (3)

Prerequisite: consent of instructor. Analysis of a specialization within the study of society such as: socialization and personality; deviance; social change; institutional structure and process. May be repeated for credit.

502A The Research Process (3)

Requires the completion of a research project including such elements as theory construction, hypotheses formation, sampling, survey construction, data collection and data analysis.

502B The Research Process (3)

Prerequisite: Sociology 502A. Problems of social research. Causal inferences, value bias and measurement, the construction of

506 Theories of Aging (3)

Prerequisite: consent of instructor. Analysis of contemporary theories of adult development and aging and their application to solving social and scientific problems of an aging population.

581 Advanced Theories of Social Behavior (3)

Prerequisite: Sociology 301 or equivalent or consent of instructor. The basic elements and key problems in constructing and evaluating sociological theories.

596 Community College Symposium (3-6)

Prerequisite: consent of adviser. Introductory sociology, social problems and marriage and the family; teaching preparation. Includes an oral exam. Serve Serve many oral

597 Project: Agency Placement (3-6)

Prerequisite: consent of adviser. Twenty hours per week for one semester or 10 hours per week for two semesters. Choice limited by the availability of positions which meet the level of supervision and training for which credit may be given. Includes an oral exam conducted by a master's committee.

598 Thesis (3)

Prerequisites: acceptance as a candidate for the Master of Arts in Sociology, and approval of the topic. Individual research under supervision, reported in a thesis, and defended successfully in an oral examination conducted by a faculty committee.

599 Independent Graduate Research (1-3)

Prerequisite: consent of graduate adviser and instructor. Individual research on either a library or empirical project, with conferences with the instructor as necessary, culminating in one or more papers. May be repeated for credit.

students interested in the women's studies program and women's

liberal ares degrees in general).

Women's Studies Program

Program Coordinator: Betty Safford (Philosophy) 597 Projects Aconcy Placement (3-6)

Program Office: McCarthy Hall 103

Program Offered Minor in Women's Studies

Faculty

Tony Bell (Sociology), Bert Buzan (Political Science), Soraya Coley (Human Services), Carol Copp (Sociology), Angela Della Volpe (Linguistics), Wacira Gethiaga (Afro-Ethnic Studies), Rosalie Gilford (Sociology/Gerontology), Kenneth Goodhue-McWilliams (Biological Science), Joan Greenwood (English), Hilla Israely (Sociology), Carl Jackson (Afro-Ethnic Studies), Helen Jaskoski (English), Judith Kandel (Biology), Elliot Kushell (Management), Judith LaMaster (Psychology), Karen Lystra (American Studies), G. Nanjundappa (Sociology), David Pivar (History), Jill Rosenbaum (Criminal Justice), Diane Ross (HPER), Hazel Hawkins Russell (Afro-Ethnic Studies), Betty Safford (Philosophy), Sandra Sutphen (Political Science), Emery J. Tolbert (Afro-Ethnic Studies), Marjorie Tussing (Foreign Languages), Richard Wiseman (Speech Communication), Corinne Wood (Anthropology), Jerome Wright (Human Services)

INTRODUCTION

The minor in women's studies is designed for students (both women and men) who have a particular interest in learning more about the roles and status of women in society. Cross-disciplinary in structure, the minor draws from a wide variety of courses offered by many departments throughout the university. The goals of the minor are to apply concepts learned in women's studies courses to other academic areas, to encourage more students to do research in the area, and to prepare students in selected career paths where sensitivity to women's issues is important (particularly, business, education, counseling, human services, public administration and the health professions, as well as liberal arts degrees in general).

Student Services

The Women's Studies Student Association is an active and involved group which presents speakers, participates in colloquia, distributes an informative and entertaining newsletter, and serves to coordinate social and instructionally-related programs among students interested in the women's studies program and women's issues.



The Women's Studies Program maintains a close relationship with the Women's Center (located in the basement of McCarthy Hall), where students congregate to read announcements, share information and attend meetings. The Women's Center maintains a library of journals and texts used in women's studies courses and serves as the headquarters for the Women's Studies Student Association.

MINOR IN WOMEN'S STUDIES

The minor consists of 23 units, selected from the following categories:

Core Courses (5 units)

Philosophy 302 Introduction to Women's Studies (3) Biology 360 Biology of Human Sexuality (2)

Breadth Courses (9 units)

Courses should be selected from among the following in disciplines other than one's major. Courses in the major may not be used for credit toward the minor's breadth requirement.

Anthro 432 Women in Cross-Cultural Perspective (3) History 270 Women in American History (3) Philosophy 343 Philosophy of Feminism (3) Poli Sci 485 Politics of Change (3) Psychology 310 Psychology of Women (3) Sociology 450 Sociology of Sex Roles (3)

Elective Courses (9 units)

Selected from among the following, or with the consent of the program coordinator. Courses listed under "Breadth Courses" which are not used to fulfill the breadth requirements may also be used to fulfill the elective requirements.

Afro 310 Black Women in America (3)

Afro 311/Huser 311 Intracultural Socialization Patterns (3) American Studies 413 The Shifting Role and Image of the American Male (3)

American Studies 450 Women in American Society (3)

Chicano 406 La Chicana (3)

Crim Just 430 Women and Crime (3)

English 355 Images of Women in Literature (3)

French 485 Seminar in French Literature (3)*

German 485 Seminar in German Literature (3)*

History 370 American Sex Reformers (3)

Linguistics 369 Language, Sex Roles, and the Brain (3)

Management 431 Women In Management (3)

Nursing 303 Women's Health and Healing (3)

Poli Sci 474 Seminar in Constitutional Law: Civil Rights and Civil Liberties (3)

Psychology 312 The Psychology of Human Sexual Behavior (3)

Sociology 407 Women in Contemporary Society (3)

Sociology 408 Sexual Abuse in American Society (3)

Sociology 446 Aging and Sexuality (3)

Speech Comm 315 Male Female Communication (1)

Independent Studies, offered in various departments (1,2 or 3)*

^{*}When course topic focuses upon women.

OF NATURAL SCIENCE AND MATHEMATICS

School of Natural Science and Mathematics



Dean: Kolf O. Jayaweera Associate Deans: Marvin Rosenberg and Margaret Woyski Margaret Woyski Margaret Woyski Assistant Dean: Lynne McVeigh

Programs Offered the state of t Biological Sciences (B.A.) Students interested in programs in the school (A.M.) Biochemistry (B.S.) and to office of the bluods rotate berslash Biotechnology (Minor) Chemistry (B.A., B.S., Minor, M.S.)
Geology (B.S., Minor) Mathematics (B.A., Minor, M.A.) Physics (B.S., Minor) Science (M.A.T.) Teaching Credential

Single Subject Waiver Program in Life Science Single Subject Waiver Program in Physical Science Single Subject Waiver Program in Mathematics

The curricula of the School of Natural Science and Mathematics are designed to prepare students for careers in scientific and other technical fields, for further study and specialization in advanced graduate work, and for entry into professional schools of medicine and other health-related disciplines. The faculty of the school is actively involved not only in instruction and scholarship but also in the advisement of students in the school on topics relating to the planning of career and program goals. Cooperative education internship programs are available in each of the school's departments.

The school sponsors a variety of professional and educational programs at which students and faculty have an opportunity to meet with their counterparts.

Recommended Preparation: For a career in mathematics or science a sound foundation is essential. High school preparation should include:

- · at least three, preferably four, years mathematics
- · chemistry and/or physics, preferably both
- · two or three years of foreign language.

Community college preparation should include at the minimum:

- · college writing
- · calculus
- · college chemistry
- · first course in the major.

Qualifying Examinations: Enrollment in introductory courses is restricted to those who are adequately prepared, as shown by performance on qualifying examinations. In addition, the Entry Level Mathematics (ELM) examination is required of all students unless exempt.

Undergraduate Student Advisement

Undergraduate students should call the department office of their major to arrange for advising and approval of their study plan. University policy requires students to see an adviser each of their first two semesters and every year thereafter. Most departments prefer to advise their majors more frequently.

Students interested in programs in the school, but without a declared major should call the Office of the Dean for advisement.

Advisement for Health Professions

It is important for any student interested in pre-medical and allied fields to seek advisement at the Health Professions Office prior to registering for the first semester.

The corricula of the School of Naural Science and Mathematics are designed to prepare analency for careers in scientific and other rechnical fields, for further study and specialization in advanced graduate work, and for entry into professional schools of medicine and other health-related deciplines. The faculty of the school is actively involved not only in instruction and scholar ship but also in the advisement of students in the school on topics relating to the obscience of career and program goals. Connectivity

The school sponsors a variety of professional and educational programs at which students and faculty have an opportunity to meet with their counterpairs.

Recommended Preparation: For a career to mathematics or science a sound foundation is essential. High school preparation should include:

· at least three, preferably four, years mathematics

chemistry and/or physics, presently both

Graduate Student Advisement

Graduate students should consult the graduate adviser in their major department before registering for the first semester. No more than nine units may be completed before an approved study plan is filed.

Scholarships and Awards

The Miles McCarthy Health Professions Award is made annually to the outstanding graduate from the program for the health professions. The Diefenderfer Award is made annually to an outstanding woman or minority student. Other scholarships are available for majors in the School. Consult the university scholarship bulletin for details.

Recommended Program in General Education

Majors in the School of Natural Science and Mathematics should take mathematics and other courses in related fields early. General education courses normally should be scheduled throughout the study sequence.

Because of high unit requirements for the Bachelor of Science in Chemistry, this program has modified requirements for general education. Students should consult the department for particulars.



Department of Biological Science

Department Chair: C. Eugene Jones Department Chair: C. Eugene Jones
Director, Graduate Program: Michael Horn Department Office: McCarthy Hall 282

those upper-division courses which will satisfy the Programs Offered and along language on the element

Bachelor of Arts in Biological Science

Emphasis in Medical Technology

Minor in Biotechnology

Master of Arts in Biology

Waiver Program for Single Subject Teaching Credential in Life Science (Ryan)

Faculty

Phillip Adams, Bayard Brattstrom, Jack Burk, Calvin Davenport, Kathryn A. Dickson, David Drath, David Fromson, Kenneth Goodhue-McWilliams, Ted Hanes, Kristine Hartney, Michael Horn, C. Eugene Jones, Judy Kandel, Robert Koch, Charles Lambert, Miles McCarthy, Lon McClanahan, Steven Murray, Joyce Ono, William Presch, Marvin Rosenberg, Roger Seapy, James Smith, Donald Sutton, Barry Thomas, G. Cleve Turner, David Walkington, Joel Weintraub, Calvin Young

Biology is the study of life, its basis and processes. The discipline is dynamic and expanding rapidly. In one direction, the study of molecular origins is the basis for understanding how cells are constructed and how they function including their metabolism, growth, development and reproduction. In another direction, the study of organisms is the basis for the understanding of how populations of organisms interact among themselves and with their environment. This includes a consideration of the distribution and abundance of organisms, energy flow among organisms and the cycling of inorganic and organic resources.

The major in biological science is designed for students who (1) desire to enter graduate and professional schools; (2) wish to prepare for secondary school teaching; or (3) seek careers in industry and state or federal agencies. The purposes of these students can best be served by building their curricula on a core of courses fundamental to the science of biology.

The curriculum beyond the basic core experience can best be satisfied through individual advising rather than through prescribed programs. Students will be assigned a faculty adviser when they enter the University. Students are required to meet with their designated adviser, at least once a year, in order to develop an appropriate program of study. The Department of Biological Science has established curricula in subdisciplines of biology which include: botany, cell and molecular biology, ecology, genetics, marine biology, medical biology, microbiology and zoology. After discussion with their advisers, students will elect those upper-division courses which will satisfy their individual interests and professional goals.

Special Programs

In addition to the usual course offerings, the Department of Biological Science participates in the Institute for Molecular Biology and two consortial programs with other California State University campuses. These are the Ocean Studies Institute and the California Desert Studies Consortium at Soda Springs, which are described in this catalog under "Institutes/Study Centers."

Preprofessional Information

The Office of Health Professions provides advising services to students wishing to enter the health professions. The services include counseling students to plan their academic programs, providing students with the opportunity to volunteer for work opportunities in the area of their interest, and providing assistance in the preparation of applications, including interviewing techniques.

Credential Information

To qualify for a waiver from the examination for a Single Subject Credential in Life Science, the following courses must be included among, or in addition to, the requirements for the B.A. in Biological Science: Biology 320L or 316L. One of: Biology 362, 468, or 444. One of: Biology 419 and 419L, 446, 461, or 475.

Jerome Wilson Scholarship

To preserve the memory of Dr. Jerome Wilson, two scholarships per year are awarded to deserving undergraduate or graduate students of biology.

Recommended Program in General Education

Because of high unit requirements for the B.A. in Biological Science, students are urged to consult with their adviser to design their general education program.

Upper-Division Baccalaureate Writing Requirement

In addition to passing the English Writing Proficiency exam, students must pass English 301 Advanced College Writing or English 360 Scientific and Technical Report Writing with a grade of C or better.

Internships

Biology 495 Biological Internship provides students with the opportunity to participate in a practical work experience which integrates their interests with classroom studies.

BACHELOR OF ARTS IN BIOLOGICAL SCIENCE

A total of 124 units, including general education, 43 units in biology courses (27 units in the core and 16 units of upper-division electives), the upper-division writing requirement and supporting courses in physical sciences and mathematics are required for completion of the B.A. in Biological Science. The supporting courses must include one year of general college chemistry including qualitative analysis with laboratory, one year of organic chemistry with laboratory, one semester of college calculus, and one year of college physics with laboratory, a total of 30 units. Those students seeking careers in medicine should take a year of calculus, quantitative chemistry and laboratory, biochemistry and laboratory. Those students who wish to earn a doctoral degree should consider, in addition, a modern foreign language or advanced courses in computational sciences.

To qualify for a baccalaureate degree in biological science, students must have a 2.0 overall average in all required supporting courses. No credit toward the major will be allowed for biology courses in which a grade of D or F is obtained. Courses taken under the Credit/No Credit grade option may not be applied towards the major.

Upper-division students will be permitted to enroll in Biology 480 Advanced Topics in Biology, Biology 495 Biological Internship, and Biology 499L Independent Laboratory Study, for a total of three units. All full-time upper-division students are expected to attend the departmental seminars.

Core Requirements for the Major

131	Principles of Biology
	Principles of Botany 4
261	Principles of Zoology 4
302	General Microbiology 4
312	Genetics and Molecular Biology 3
315	Cell and Developmental Biology 3
316	Principles of Ecology 4
320L	Cell and Molecular Laboratory 2
	Total

Students must complete Biology 131, 241, and 261 before they take any other biology courses.

Supporting Course Requirements for the Major Chem 120A, B General Chemistry 10 Physics 211A, AL Elementary Physics 4 Physics 211B, BL Elementary Physics 4 Math 130 A Short Course in Calculus or Math 150A Analytic Geometry and Calculus 1. 4 The Compared the Scientific State of the House of the Scientific State of the State of the Scientific State of the State o

MEDICAL TECHNOLOGY EMPHASIS

Students wishing to pursue training in medical technology should satisfy the core and supporting course requirements for the biology degree, then select appropriate clinical courses to fulfill the electives requirement. These electives include Biology 423, 424, 426, 438, 462, 469, and Chemistry 421A, 422A, and 430. Upon completion, the student is eligible to apply for a Clinical Laboratory Technologist Trainee License from the California State Department of Health, and then seek entry into a state or nationally approved clinical laboratory training school for the required one year program of internship. Completion of this program will entitle the student to take the California and national medical technology licensing examinations. Fundamental concepts and principles of biology:

By taking a modified arrangement of courses, students in the Medical Technology Emphasis also may fulfill the academic requirements to become a Public Health Microbiologist.

MINOR IN BIOTECHNOLOGY

The biotechnology minor is appropriate for students majoring in biological science or biochemistry and interested in gaining employment in nearly any area of the growing medical and agricultural biotechnology industries, working in academic research laboratories, or pursuing postgraduate degrees in basic molecular biology or biochemistry. the natural and health sciences. ((d. JOE, KAD) (Gaugest

The biotechnology minor requires a minimum of 31 acceptable units of chemistry and biology as shown below. These courses must be completed with an overall grade-point average of 2.0 and include 12 units unique to the minor and not used to meet requirements for the biological science or chemistry major.

Required Core Courses

Biol 131	Principles of Biology	3
Biol 312	Genetics and Molecular Biology	3
Chem 301	A,B Organic Chemistry (3,3)	5
Biol 320L	Cell and Molecular Biology Lab	
or Cher	n 422A Biochemistry Laboratory	2
Biol 412	Gene Manipulations	3
Biol/Chen	n 472A,B Advances in Biotechnology	
Lab (3,	doneso vicuosolelad rese, sucedo ad abas	3
	Advances in Biotechnology	
Tota	Core 11) (time req grantarodal sword 8) 30128	3

Supporting Courses

Students must complete one of the following courses:

Biol 413 Molecular Biology
Biol 424 Immunology
Chem 421A or 423A Biochemistry (1st semester) 3
Chem 421B or 423B Biochemistry (2nd semester) 3
Total Supporting3-4

Classified Standing (8) ygoloid value

MASTER OF ARTS IN BIOLOGY

The program is based on the assumption that modern science necessitates broad preparation through the master's level of training. In design, it offers sufficient breadth and depth to strengthen the student's academic understanding and improve competence for (a) advanced graduate work toward the doctoral degree in biology, (b) teaching at all levels - elementary, secondary and community college, (c) participating in research programs, (d) participating in various field service and conservation positions with both the state and national governments, (e) entering the field of public health service, or (f) technological work in the health sciences. The parties are of older goods area research problem. A final oral examination on the stud

Admission Requirements

An applicant must meet the university requirements for admission, which include a baccalaureate from an accredited institution, and a grade-point average of at least 2.5 in the last 60 semester units attempted (see section of this catalog on Graduate Admissions for complete statement and procedures). In addition to the university requirements for admission, acceptance into this program is contingent upon the following: (1) a B.A. in Biological Science or related area at Cal State Fullerton or other accredited institution with a grade-point average of 3.0 in biology courses and a GPA of 2.5 in the related courses in mathematics, chemistry and physics; (2) acceptance by a thesis adviser; and (3) satisfactory scores on one of the following: (a) Graduate Record Examination Aptitude Test and the Advanced Test in Biology; (b) Medical College Admission Test; (c) Dental Admission Test; (4) completion of departmental application; and (5) submission of two letters of recommendation.

Students must meet the Graduate Level Writing Requirement which can be found in this catalog under "Graduate Regulations." Students will meet this requirement by taking Biology 500A,B Professional Aspects of Biology.

Students with limited subject or grade deficiencies may be considered for conditional acceptance to the program. Conditionally classified graduate standing may be removed upon completion of nine units of adviser and graduate committee approved postgraduate studies in biology, mathematics, chemistry or physics, with grades of B or better.

Classified Standing

Students should achieve classified graduate standing as soon as they are eligible, since no more than nine units of graduate work taken before classification can be included on the study plan (see below) for the degree. A student who meets the admission requirements may apply for classified standing, which requires the development of a study plan approved by the adviser, thesis committee, director of the departmental graduate program and dean of graduate studies.

Advancement to Candidacy

Advancement to candidacy is attained by requesting a graduation check and receiving subsequent approval of the graduate program adviser on Form B, mailed by the Graduate Studies Office.

Study Plan

A study plan includes a minimum of 30 units of adviser-approved graduate work; at least one-half of the total units must be at the 500-level. All study plans must include Biology 599 Independent Graduate Research, Biology 500A, B Professional Aspects of Biology, and Biology 598 Thesis, and at least one departmental seminar. Six units must be outside the principal area. Required is a thesis acceptable to the adviser and committee, covering a research problem. A final oral examination on the student's research is also required.

Supervising the work of graduate students requires the personal attention of advisers. To insure that advisers are available for new graduate students a graduate student is expected to complete the requirements for graduation within three years after classification.

Students who are graduate assistants should complete the classification step either prior to appointment or during their first semester of appointment. They must become classified before being reappointed.

For more detailed information or advisement, students should contact the Biological Science Department, or the Graduate Program Director of the Biological Science Department.

Biological Science Courses

Unless otherwise designated, prerequisites may be waived by the instructor of the course if the instructor is satisfied that the student is qualified to undertake the course.

101 Elements of Biology (3)

Underlying principles governing life forms, processes and interactions. Elements of biology and reasoning skills for understanding scientific issues on personal, societal, and global levels. For the non-science major. (3 hours lecture)

101H Elements of Biology (Honors) (3)

Corequisite: Biology 101LH (Honors) must be taken concurrently with this course. Students must meet honors qualifications. Living organisms and characteristics of the natural environment. Emphasis on the scientific reasoning leading to our current understanding of living systems. (3 hours lecture)

101L Elements of Biology Laboratory (1)

Prerequisite or corequisite: Biology 101. Scientific inquiry, cell structure and function, physiology, genetics, biodiversity, evolution and ecology. For the non-science major. (3 hours laboratory or fieldwork; weekend field trips may be required)

101LH Elements of Biology Laboratory (Honors) (1)

Corequisite: Biology 101H (Honors) *must* be taken concurrently with this course. Students must meet honors qualifications. Laboratory experiments and demonstrations which provide insight to scientific reasoning and the basis of our current understanding of living systems. (3 hours laboratory or fieldwork; field trips may be required)

131 Principles of Biology (3)

Fundamental concepts and principles of biology: Nature of chemical bonds, biological molecules, cell structure and function, metabolism, photosynthesis, mitosis and meiosis, transmission genetics, gene structure and function, development, ecological interactions and associations, evolution. For science majors. (3 hours lecture)

241 Principles of Botany (4)

Prerequisite: Biology 131 or equivalent. The plant kingdom. The dynamic nature of plants as revealed by their structure, function, classification, phylogeny, physiology and ecology. (2 hours lecture; 6 hours laboratory or fieldwork; weekend field trips may be required). (CAN BIOL 6)

261 Principles of Zoology (4)

Prerequisite: Biology 131 or equivalent. The animal kingdom. The dynamic nature of representative invertebrate and vertebrate organisms; their structure, function, phylogeny, classification, physiology, behavior and ecology. (2 hours lecture; 6 hours laboratory or fieldwork; weekend field trips may be required)

299L Directed Laboratory Study (1-2)

Prerequisites: Biology 131 and consent of instructor. Research in biology under the supervision of a biology faculty member. Intended for students (especially lower division) who may not have completed sufficient course work to allow them to work independently, but who are eager for laboratory research experience. May be repeated for university credit, but units do not count toward major. (3 hours laboratory per unit)

300 Environmental Biology (3)

Prerequisite: Biology 101 or equivalent. Biological consequences of human intervention in ecosystems: Endangered and threatened species, pollution impact on organisms, pest control, population dynamics, genetic engineering of agricultural species, management of natural areas and urban ecosystem dynamics. No credit toward Biological Science major. (3 hours lecture)

302 General Microbiology (4)

Prerequisites: Completion of lower division biology core courses and one year of college chemistry. Introduction to structure and function of bacteria and viruses including beneficial and detrimental activities and interactions with other organisms. Laboratory provides experience with microscopic, cultural, physiological and genetic study of microbes. (2 hours lecture; 6 hours laboratory)

305 Human Heredity and Development (3)

Prerequisite: One semester of college biology. Principles of human heredity and embryology relating to human development. Mendelian genetics, single gene effects, genetics, prenatal diagnosis, and human embryology. No credit toward biological science major. (3 hours lecture)

306 Biology of Aging (3)

Prerequisite: Biology 101 or equivalent. Biological changes in cells, tissues, organs and the whole body associated with aging. Theories of aging will be discussed with primary emphasis on mammals. No credit toward biological science major. (3 hours lecture)

307 Computer Applications in Biology (3)

Prerequisite: upper-division standing in biology. Introduces biology students to the efficient use and application of computers in data organization, management and assimilation with respect to the natural and health sciences. (1 hour lecture and 6 hours laboratory)

308 Biological Illustration (3)

Prerequisite: one year of college biology. Line illustration and lettering used in preparation of biological drawings, charts and graphs for scientific publication. (1 hour lecture, 6 hours labora-

310 Human Physiology (3)

Prerequisite: Biology 101 or equivalent. Human physiological systems and their relationship to human function for non-biology majors and students in physical education and health sciences. No credit for biological science major. (3 hours lecture)

311 Nutrition and Disease (3)

(Same as Chemistry 311)

312 Genetics and Molecular Biology (3)

Prerequisite: Biology 302 or equivalent. Prerequisite or Corequisite: Chem 301A. Required of all Biology Majors. The general principles and molecular developments in the study of heredity. The course is comprehensive and includes transmission genetics, cytogenetics, elements of human, bacterial, fungal, and viral genetics, DNA structure and function, including expression and protein synthesis, recombinant DNA. (3 hours lecture)

312L Genetics Laboratory (2) Spentiages attracting and avig on

Prerequisite or corequisite: Biology 312. An introduction to the experimental analysis of the mechanisms of heredity. Cytological studies, transmission genetics, population genetics, induced mutation, gene localization, molecular mapping and others. (6 hours laboratory) and learned box mentions also paid amount

313 Human Genetics (3) strew language bins biomarch seq

Prerequisite: one semester of college biology. Principles of heredity. Methods of analysis, interaction of genes and environment, and gene populations in humans. No credit toward biological science major. (3 hours lecture)

315 Cell and Developmental Biology (3)

Prerequisites: Biology 302 and Chemistry 301A or equivalents. Cell structure and function including an analysis of subcellular organelles and systems. An understanding of how research elucidates structure and function of cells. Also, study of the mechanisms operative during the embryogenesis. (3 hours lecture)

316 Principles of Ecology (4)

Prerequisite: Biology 302 or equivalent. Introduction to physiological, population, community and ecosystem ecology. (3 hours lecture, 2 hours activity; weekend field trips may be required.)

316L Principles of Ecology Laboratory (2)

Corequisite: Biology 316. Laboratory and field activities designed to investigate the interrelationships of organisms and their environment at the population, community and ecosystem levels. (6 hours laboratory or fieldwork; weekend field trips may be required)

318 Wildlife Conservation (3)

Prerequisite: one semester of college level biology. Causes and consequences of extinctions of plant and animal species. Endangered species, threatened ecosystems, design and management of nature reserves, captive species propagation, species reintroductions, restoration ecology, organized conservation efforts. No credit toward biological science major.

319 Marine Biology (3)

Prerequisite: one semester of college biology. Marine plants and animals and their habitats. Marine biology especially in the Southern California region. No credit toward biological science major. (3 hours lecture)

319L Marine Biology Laboratory (1)

Corequisite: Biology 319. Laboratory analyses of marine plants and animals and their habitats. No credit toward biology major. (3 hours laboratory or fieldwork; weekend field trips may be required)

320L Cell and Molecular Biology Laboratory (2)

Corequisites: Biology 312. Laboratory exercises in cell and modern molecular biology including recombinant DNA technologies to give the students experience in the analysis and characterization of cellular components and processes. (6 hours laboratory)

323 Biology of Sexually Transmitted Diseases (STD) (2)

Prerequisite: one semester of college level biology. The symptoms, diagnosis, treatment and control of a number of sexually transmitted diseases including gonorrhea, syphillis, AIDS, herpes, chancroid and venereal warts. (2 hours lecture)

325 Understanding the Immune System (1)

Prerequisites: Biology 101. Nontechnical overview of the cellular and molecular basis of specific immune responses, allergy, hypersensitivity, immunodeficiency (AIDS, etc.), autoimmunity, immunotherapy, and recent findings. No credit toward biological science major. A 10% vitament bind 10% vgoloid ventaling and I

340 Field Botany (3) Managebru nA america box estimoso

Prerequisite: Biology 241 or equivalent. The native flora of Southern California. Identification techniques and factors which determine the distribution of species. (1 hour lecture, 6 hours laboratory or fieldwork; weekend field trips may be required)

344 Survey of the Land Plants (4)

Prerequisite: one year of college biology. A survey of the anatomical and morphological characteristics of the land plants as they relate to the evolutionary development and ecological strategies of these plants. (2 hours lecture, 6 hours laboratory)

352 Plants and Life (3)

Prerequisite: one semester of college biology. Humans' dependence upon and economic interest in plants throughout the world. The domestication of plants and the origin of agriculture. 318 Wildlife Conservation (3) (3 hours lecture)

353 Principles of Horticulture (2)

Prerequisite: one semester of college biology. The study of cultivated plants including garden, house, ornamental and fruit plants; their propagation, care and requirements. No credit toward biological science major. (2 hours lecture)

353L Principles of Horticulture Laboratory (1)

Prerequisite: Biology 353, concurrent enrollment in 353, or consent of instructor. The propagation and care of horticultural plants. (3 hours laboratory)

360 Biology of Human Sexuality (2) and Immension 3 008

Prerequisite: one semester of college biology. The biology of the human reproductive system. Sexual differentiation, structure and function, fertility and infertility, coitus, child-birth, contraception and venereal disease. No credit toward biological science major. (3 hours lecture per week for 10 weeks)

361 Human Anatomy (4)

Prerequisite: one year of college biology. A systems approach to the structure and function of the human body. For biology majors and related health sciences; students with zoology emphasis should take Biology 463. (2 hours lecture, 6 hours laboratory)

362 Mammalian Physiology (4) Aniw sometrogy asbivord vion

Prerequisite: one year of college biology and college chemistry. The fundamental mechanisms of mammalian physiology. For biology majors and related health sciences. Students with zoology emphasis should take Biology 468. (3 hours lecture, 3 hours Perconsiste One senester of college biology. Principle of

367 Insects and the Human Ecosystem (3)

Prerequisite: One semester of college biology, upper division standing. Insect adaptations, behavior and ecology; their influence on human resources and health. Cultural attitudes toward, and historical importance of insects. No credit toward biological ance major.

Prerequisite: Biology 101 or equivalent, Biological changes science major.

401 Biogeography (3)

Prerequisite: one year of college biology. Evolutionary patterns and mechanisms of distribution of plants and animals in the major habitats of the world. Current concepts and theories. (3 hours lecture)

403 Biosystematics (3)

Prerequisite: one year college biology. A study of the principles and techniques of biological systematics, focusing on evolutionary mechanisms, phylogenetic relationships, organismic diversity and principles of classification. (3 hours lecture; weekend field trips may be required)

308 Biological Illustrations (3) or equit length and Illustration (3)

404 Evolution (3) Valent steller hardest enact visit upon a

Prerequisite: one semester of college biology or Biology 261. The history of evolutionary thought; origin of universe, earth and life; geological and paleontological history of the earth; evidences derived from comparative anatomy, embryology, genetics, zoogeography; mechanisms of evolution. (3 hours lecture)

405 Developmental Biology (3)

Prerequisite: Biology 315, 320L. Either Biology 312 or 464 recommended. Molecular and cellular processes in the development of organisms such as oogenesis, fertilization, cytokinesis-morphogenetic movements, and nucleocytoplasmic interactions. (3 (Same as Chemistry 311) (sinu seq grossrodel (enutsel suod)

406 Biometry (4)

Prerequisites: Mathematics 120, 130, or 150A; upper-division standing in biological sciences. Experimental design, interpretation, and application of statistics to biological problems. (3 hours lecture, 3 hours laboratory)

407 Seminar in Human Sexuality (3)

Prerequisites: one semester of college biology and upper-division standing. The biological-physiological bases of human sexuality as they relate to human sexual interaction and social change. (3 hours lecture/discussion)

409 Multivariate Biometry (4)

Prerequisite: Biology 406. Experimental design, interpretation, and application of multivariate statistics to biological problems. Topics include: principal component, discriminant, canonical correlation, ordination, and cluster analyses. (2 hours lecture, 6 hours laboratory)

411 Photomicrography (3)

Prerequisites: upper-division standing and consent of instructor. Methods and techniques of photomicroscopy emphasizing a variety of subject materials and optical equipment. For students requiring skills in photomicrography for teaching and research. (1 hour lecture, 6 hours laboratory)

412 Principles of Gene Manipulation (3)

Prerequisites: Biology 312, 315, 320L and Chemistry 301AB. Current approaches to and applications of recombinant DNA technology. Construction of recombinant molecules including vectors and enzymes, introduction into organisms, selection, expression of cloned genes, and impact of research on society.

413 Advances in Molecular Genetics (3)

Prerequisites: Biology 312, 315, 320L and Chemistry 301A, B. The organization, replication and function of the genetic material and informational macromolecules. Chromosomal structure and function, recombination, mutagenesis, genetic coding, protein synthesis, biogenesis of RNA molecules and regulation of gene expression. (3 hours lecture)

415 Introduction to Electron Microscopy (4)

Prerequisites: Biology 315 and 320L. Fixation, embedding and thin sectioning of biological tissues; operation of scanning and transmission electron microscope, EM darkroom procedures; and interpretation of electron micrographs. (2 hours lecture, 6 hours laboratory)

416 Freshwater Biology (4)

Prerequisites: Biology 131, 241, 261, and one year of college chemistry. Stream, pond, and lake plant and animal distribution in relation to physical and chemical factors. (2 hours lecture, 6 hours laboratory or fieldwork; weekend field trips may be required)

419 Marine Ecology (3) A bus vgoloidosolid laimaubul 484

Prerequisites: Biology 131, 241, 261 or equivalents. Ecology of planktonic, nektonic and benthic organisms; their communities and environments. (3 hours lecture)

419L Marine Ecology Laboratory (1)

Corequisite: Biology 419. Field and laboratory studies of planktonic, nektonic and benthic communities. (3 hours laboratory or fieldwork; weekend field trips may be required)

423 Pathogenic Bacteriology (4)

Prerequisites: Biology 315 and 320L. The biology of infectious diseases; mechanisms of pathogenicity; modes of action of antimicrobial agents. Emphasis on characteristics of specific pathogenic bacteria and their identification. (2 hours lecture, 6 hours laboratory) with a laboratory and in the same and in the same

424 Immunology (4)

Prerequisites: Biology 302, 315 and 320L; concurrent enrollment in biochemistry is strongly advised. The molecular, cellular and organismic nature of the immune process. Inflammation, phagocytosis, antigens, immunoglobulins and cell-mediated immune phenomena. Modern immunology techniques. (2 hours lecture, 6 hours laboratory-discussion)

425 Pathobiology (3)

Prerequisites: Biology 361, 362 and Chemistry 351. For students engaged in the allied health sciences or who have had at least a year's experience in the allied health field. Pathobiological processes including etiology, cytopathology, histopathology, gross pathology and epidemiology. No credit toward Biology major. (3 cal ecology. (2 hours lecture, 6 hours laboratory (arubal sruod

426 Virology (3)

Prerequisites: Biology 302, 312 and 315. Viral structure and replication and host-virus interactions in the viral replication process, with emphasis on animal and bacterial virus systems. (3 hours lecture)

428 Biology of Cancer (3)

Prerequisites: Biology 315 and 320L. The cancer problem as a dilemma of biology. Clinical and epidemiological aspects. Current research. (3 hours lecture)

432 Microbes and Food Production (2)

Prerequisites: Biology 302 or equivalent for grade option; none for C/NC option. The ancient and modern processes of making cheese from milk, wines from fruits, breads and beers from grains. The microbes involved in transforming the unstable raw materials into more desirable products. (1 hour lecture, 3 hours laboratory or fieldwork; weekend field trips may be required)

433 Microbial Problems in Foods (2)

Prerequisites: Biology 302 or equivalent for grade option; none for C/NC option. Food spoilage, food intoxication and foodborne diseases caused by microbes in food processing. The microbes involved, sources of contamination, and methods used in detection and prevention of problems. (1 hour lecture, 3 hours laboratory or fieldwork; weekend field trips may be required)

434 Industrial Microbiology and Applied Biotechnology (4)

Prerequisites: Biology 302, 312 and 315. Current and developing applications of microbiology within industry. Culture enhancement technology, contamination control methodology and government regulations in the production of pharmaceuticals, medical devices, energy, and in agricultural and environmental control. (2 hours lecture, 6 hours laboratory)

438 Public Health Microbiology (4)

Prerequisites: Biology 302 and upper-division standing. The control and epidemiology of infectious diseases of public health importance, water and sewage microbiology. Control of current problems. (2 hours lecture, 6 hours laboratory)

441 Plant Taxonomy (4)

Prerequisite: one year of college biology. Classification and evolution of vascular plants; emphasis on the flowering plants. (2 hours lecture, 6 hours laboratory or fieldwork; weekend field trips may be required)

443 Plant Ecology (4)

Prerequisite: Biology 316 or equivalent. Community and population ecology of terrestrial plants. Environmental factors and plant distribution with emphasis on California vegetation. (2 hours lecture, 6 hours laboratory or fieldwork; weekend field trips may be required)

444 Plant Physiology (4)

Prerequisites: one year of college biology and one semester of organic chemistry. Fundamental mechanisms of plant physiology with primary emphasis on whole plant physiology and physiological ecology. (2 hours lecture, 6 hours laboratory)

446 Marine Phycology (4) (8) ymologiv 354

Prerequisites: one year of college biology or Biology 241 and 261. Biological aspects of marine algae; comparative development, morphology, taxonomy, physiology, and ecology. (2 hours lecture, 6 hours laboratory or fieldwork; weekend field trips may be 428 Biology of Career (18) as an all suits to use (being) Prerequisites; Biology 315 and 3201. The career problem as a

450 Conservation Biology (3) (Formerly 550)

Prerequisite: Biology 316 or equivalent and consent of instructor. Current topics involving theory, concepts and techniques in the conservation of biological diversity. (3 hours lecture.)

460 Embryology (4) show has instance of Tarongo O/AO sel

Prerequisites: Biology 131 and 261 or equivalents. Comparative and experimental analysis of the development of invertebrate and vertebrate animals including man. Laboratory emphasizes living invertebrate and vertebrate embryos: (2 hours lecture, 6 hours laboratory)

461 Invertebrate Zoology (4)

Prerequisite: Biology 131, 241, 361 or equivalents. Evolution, classification, phylogeny, morphological and physiological adaptations, invertebrate animals. Dissection, identification and observation of extant animals. (2 hours lecture, 6 hours laboratory or fieldwork; weekend field trips may be required)

462 Biomedical Parasitology (4) (4) various (5)

Prerequisite: one year of college biology. Interrelationships between parasites and their hosts. Disease-causing organisms, their life cycles, detection and diagnosis. (2 hours lecture, 6 hours

463 Comparative Vertebrate Anatomy (4)

Prerequisite: one year of college biology. The chordates; morphology and evolution of organ systems of the chordates with special emphasis on vertebrates. Comparative dissection of numerous vertebrates. (2 hours lecture, 6 hours laboratory)

464 Human Embryology (4)

Prerequisite: Biology 261. Human development from gametogenesis through organogenesis. Frog, chick and pig serial sections; histogenesis and organogenesis. (2 hours lecture, 6 hours labora-

465 Animal Ecology (4) Prerequisite: one year of college biology or Biology 261, Biology 316 recommended. The factors that affect the distribution and abundance of animals. Field techniques, statistical applications and theoretical approaches. (2 hours lecture, 6 hours laboratory or fieldwork; weekend field trips may be required)

466 Animal Behavior (3)

Prerequisite: one year of college biology. The current problems in animal behavior; sensory capacities, orientation, innate and learned patterns, and social behavior of invertebrates and vertebrates. (3 hours lecture)

466L Animal Behavior Laboratory (1)

Corequisite: Biology 466. Experiments in the analysis of behavioral patterns. (3 hours laboratory or fieldwork; weekend field 413 Advances in Molecular Genetics ((beriups and sense)

467 Entomology (4)

Prerequisite: one year of college biology. Anatomy, physiology, evolution and biology of insects and other terrestrial arthropods. Dissection, collection, identification and observation of living arthropods. (2 hours lecture, 6 hours laboratory or fieldwork; weekend field trips may be required)

468 Comparative Animal Physiology (4)

Prerequisites: one year college biology and chemistry, Biology 463 recommended. Comparative study of organ systems and physiological processes among representative animals. (2 hours lecture, 6 hours laboratory, weekend field trips may be required.)

469 Hematology (4) (3) (4) regoloid renswelser [314

Prerequisites: upper-division standing and Chemistry 301A or equivalent. Blood and hemopoiesis. The functions and morphology of blood components in healthy and diseased states; hematological tests and factors affecting test reliability. (2 hours lecture, 6 hours laboratory) (beniuper

470 Cellular Neurobiology (4)

Prerequisites: Biology 315, 320L and 362. Processes of cell communication, particularly in nervous systems. Molecular biology of neuron, model sensory and motor systems, and cellular basis for behavior. Laboratory experience in electrophysical, anatomical, and pharmacological techniques of nerve cell study. (2 hours lecture, 6 hours laboratory)

472A Advances in Biotechnology Laboratory (3) (Same as Chemistry 472A)

472B Advances in Biotechnology Laboratory (3)

Prerequisites: Biology/Chemistry 472A. Second semester exploring biotechnology techniques for gene product analysis: sitedirected mutagenesis, predicting amino acid changes, protein overproduction from wild type and mutants, enzyme function assays, protein identification/preparation by gel techniques, immunoblotting, immunolabeling, polyclonal/monoclonal antibody production.

474 Natural History of the Vertebrates (4)

Prerequisite: one year of college biology or Biology 261. Natural history of the vertebrates. Observation, identification, behavior, ecology and distribution of the vertebrates. (2 hours lecture, 6 hours laboratory or fieldwork; weekend field trips may be required)

475 Ichthyology (4)

Prerequisite: one year of college biology. The systematics, evolution, morphology, physiology, ecology and behavior of fishes. (2 hours lecture, 6 hours laboratory or fieldwork; weekend field trips may be required)

476 Herpetology (4)

Prerequisite: one year of college biology, Biology 261. The biology, structure, physiology, ecology, distribution, identification, collection, evolution and behavior of amphibians and reptiles. (2 hours lecture, 6 hours laboratory or fieldwork; weekend field trips may be required)

480 Advanced Topics in Undergraduate Biology (1-3)

Prerequisites: upper-division students majoring in biological science and consent of instructor. Current topics, updating of concepts, recent advances and unification of the principles of biology. May be repeated for credit.

491 Advanced Topics in Ocean Studies (1-4)

Prerequisite: upper-division or graduate standing in biology. Selected topics in ocean studies with an emphasis on the characteristics and problems of the local marine environment. May be repeated for credit under a different topic.

491L Laboratory Topics in Ocean Studies (1-2)

Prerequisite: upper-division or graduate standing in biology. Corequisite: Biology 491. Selected lab topics in ocean studies with an emphasis on the characteristics and problems of the local marine environment. May be repeated for credit under a different topic.

495 Biological Internship (3)

Prerequisites: one year each of college biology and college chemistry; upper-division or graduate standing and consent of instructor. Biological, ecological, and health-related fields. Ninety (90) hours of practical experience in student's chosen field of interest with public or private agencies or businesses. May not be repeated for credit. (1 hour lecture/ discussion, laboratory work experience)

496 Biology Tutorials (1-3)

Prerequisite: senior standing in biology and consent of instructor. Supervised experience in biological science teaching through tutoring or assisting in laboratory or field class. No credit toward biological science major.

499L Independent Laboratory Study (1-3)

Open to undergraduate students with consent of instructor with whom the student wishes to pursue independent laboratory study in biology. May be repeated for credit.

500A Professional Aspects of Biology (1)

Prerequisite: Graduate standing and concurrent enrollment in Biology 500B. Discussions concerning research protocol, scientific methodology and communication techniques. Ethics and social responsibilities of professional biologists. (1 hour discussion)

500B Professional Aspects of Biology (1)

Prerequisite: Graduate standing and concurrent enrollment in Biology 500A. Individualized project work and experiences in scientific writing. Required of all entering thesis students. (3 hours project work)

505 Seminar in Molecular, Cellular and Physiological Biology (3)

Prerequisite: graduate standing. Selected advanced topics. May be repeated for credit.

517 Seminar in Ecological and Organismic Biology (3)

Prerequisite: graduate standing. Selected advanced topics. May be repeated for credit.

520 Seminar in Microbiology (3)

Prerequisite: graduate standing. Selected advanced topics. May be repeated for credit.

580 Advanced Topics in Graduate Biology (1-3)

Prerequisites: graduate standing in biology and consent of instructor. Current research topics, experimental design and problem solving in biological systems. May be repeated for credit.

598 Thesis (1-3)

May be repeated for a maximum of 6 units of credit.

599 Independent Graduate Research (1-3)

Open to graduate students with consent of instructor with whom the student wishes to pursue independent study in biology. May be repeated for credit.

Department of Chemistry and Biochemistry

Department Chair: Glenn Nagel Vice Chair: Bruce Weber

Department Office: McCarthy Hall 580

Programs Offered

Bachelor of Science in Biochemistry

Bachelor of Science in Chemistry

Bachelor of Arts in Chemistry Open as and expedience was now with cor

Minor in Chemistry

Minor in Biotechnology

Master of Science in Chemistry

Emphasis in Geochemistry

Single Subject Credential in Teaching (Modified Option 1)

Faculty

Robert Belloli, John Bryden, Richard Deming, Steven Hardinger, Gene Hiegel, Katherine Kantardjieff, Maria Linder, Andrew Montana, Glenn Nagel, John Olmsted, Barbara Finlayson-Pitts, Carl Prenzlow, Harold Rogers, Eric Streitberger, Joseph Thomas, Bruce Weber, Patrick Wegner, Gregory Williams, W. Van Willis, Dorothy Pan Wong

Undergraduate — Gregory Williams/Bruce Weber Graduate — Richard Deming

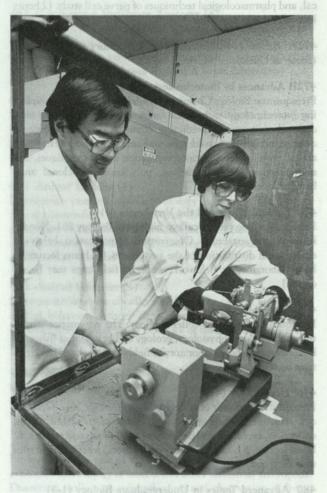
INTRODUCTION

The Department of Chemistry and Biochemistry is on the approved list of the American Chemical Society.

The curriculum is planned to provide thorough instruction in the basic principles and concepts of chemistry and biochemistry for students who will (1) advance to graduate work in chemistry or biochemistry; (2) teach in the science programs of secondary schools; (3) seek employment in industry or government; (4) advance to medical or dental training or (5) pursue a degree or minor in support of a career in other areas such as physics, biology, geology, business and computer science.

The department offers three bachelor's degrees, the Bachelor of Science (B.S.) and the Bachelor of Arts (B.A.) in Chemistry and the Bachelor of Science in Biochemistry.

To qualify for either of these degrees, students must earn a C grade in all courses required for the major including prerequisites in related sciences or mathematics.



Perceptions one was resident against the continue of the Property of the Advanced Topics in Ocean Studies (I 4):

4911 Laboratory Topics in Ocean Studies (1-2)
Prefequence upper division or graduate standare in biology, C
equisite: Biology 491. Selected for topics in occasionalities with
emphasis on the characteristics and problems of the local man

Internships

Internship in chemistry (Chemistry 490B) provides practical work experience which integrates with the student's classroom studies.

Recommended Program in General Education

Because of high unit requirements for chemistry degree programs, a student majoring in chemistry is strongly urged to consult with a chemistry faculty adviser prior to designing his/her general education package.

Upper-Division Baccalaureate Writing Requirement

Chemistry and biochemistry majors can meet the coursework portion of the University's upper division writing requirement by passing either English 301 or English 360.

BACHELOR OF SCIENCE IN BIOCHEMISTRY

The B.S. degree is recommended for students planning to go directly into professional biochemistry and for students planning to attend graduate school in biochemistry or molecular biology. It is also excellent preparation for medical, dental and pharmacy school.

Chemistry & Biochemistry Courses (27 units)

gram, a student must meet the lottowing resumments. Units
Chem 120A,B General Chemistry
Chem 301A,B Organic Chemistry 6
Chem 302 Organic Chemistry Laboratory 2
Chem 361A,B Intro to Physical Chemistry 6
Chem 422A,B Biochemistry Laboratory 4
Chem 423A,B General Biochemistry 6
Chem 490 Career Options in Chemistry 1
Chem 495 Senior Research

Note: The following substitutions are acceptable and depending upon your career goals may be recommended:

Chem 305A, B for Chem 301A, B Chem 371A.B for Chem 361A.B

Required Elective (3 units — Biochemistry Advisor Approval Required)

Note: It is normally expected that students will take Chem 315 in order to be prepared for Chem 422A,B.

Chem 315 Quantitative Chemistry or Chem 325 Inorganic Chemistry or Biol 362 Mammalian Physiology drive and noting reliant or Biol 412 Gene Manipulation

Related Courses	Units
Physics 211A,B Elementary Physics	6
Physics 211AL, BL Elementary Physics Lab	2
Math 150A,B Analytic Geometry and Calculus	8
Biol 131 Principles of Biology	3
Biol 312 Genetics and Molecular Biology	3

Two of the following: Biol 302, 315, 362, 405, 412, 413, 426 or 468	5-8
Computer Sci 112 Intro to Computer Programming or EG-GN 205 Digital Computation or Approved Elective	. 3
English 301 Advanced College Writing or English 360 Scientific and Technical Report Writing	3

Note: The following substitutions are acceptable and depending upon your career goals may be recommended:

Physics 225A, B for Physics 211A, B Physics 225AL, BL for Physics 211AL, BL

BACHELOR OF SCIENCE IN CHEMISTRY

The Bachelor of Science degree is recommended for students planning to go directly into professional chemistry and for those who wish to do graduate work in physical, analytical, organic or inorganic chemistry. Students who complete this program and include an advanced course in instrumental analysis (such as Chemistry 411) and advanced inorganic chemistry (425) will qualify for certification by the American Chemical Society.

Basic Requirements

Courses Normally Taken During the First Two Years (These courses are prerequisite to the additional required chemistry Courses Normally Taken Dumly with Programme (courses):

Units
General Chemistry (Chemistry 120A,B) 10
Organic Chemistry (Chemistry 305A,B) 10
Quantitative Chemistry (Chemistry 315) 3
Fundamental Physics (Physics
225A,B,C, 225AL,BL,CL)
Analytic Geometry and Calculus
(Math 150A,B) 8
Total
Iditional Required Chemistry Courses Units

dditional Required Chemistry Courses	Units
Integrated Laboratory (Chemistry, 355A,B)	6
Inorganic Chemistry (Chemistry 325)	3
Physical Chemistry (Chemistry 371A,B) .	6
Career Options in Chemistry (Chem 490A) 1
Senior Research (Chemistry 495)	4
Upper-division elective	3
Total	

The following upper-division chemistry courses are not allowable toward the upper-division elective requirement: Chemistry 480A, 490B, 495, 496 and 499.

Other Requirements	Units
Calculus and Linear Algebra (Math 250A,B) Advanced College Writing (English 301	8
or English 360)	3
Computer Programming (Engineering 205	0.01.
or Computer Science 112)	3
Remainder of general education and	IV. aladigari
elective units	35
Total	58

Career Breadth Requirements

The career breadth requirement is satisfied by taking nine units of upper division coursework directly related to the student's career plans and approved in advance by the undergraduate adviser.

BACHELOR OF ARTS IN CHEMISTRY

The Bachelor of Arts in Chemistry is offered for students who are planning careers which require a sound background in fundamental chemistry, but not at the depth of the B.S. degree.

The B.A. is particularly suited for those who plan to go into areas such as secondary education, technical sales, food processing, chemical patent law and forensic sciences.

Basic Requirements

Courses Normally Taken During the First Two Years (These courses are prerequisite to the additional required chemistry courses):

tring transc Chemistry 103A, B. Warner Units
General Chemistry (Chemistry 120A,B) 10
Organic Chemistry (Chemistry 301A, B, 302) 8
[Students may substitute Chemistry
305A,B (10 Units)]
Quantitative Chemistry (Chemistry 315) 3
Elementary Physics (Physics 211A, B, 211AL, BL) 8

Students planning to pursue graduate studies in biochemistry who are not in the B.S. program should substitute Physics 225A,B,C, and 225AL, BL,CL for Physics 211A,B and 211AL,BL and Chemistry 371A,B for 361A,B. Students who are candidates for professional schools such as medicine and dentistry, graduate school in biology or a teaching credential in physical science should also substitute Physics 225A,B,C.

Analytic G	Geometry and Calculus (Math 150A,B)	. 8
Total	NA. 4609 1402 408 504 700	37

Additional Required Chemistry Courses Un	its
Integrated Laboratory (Chemistry 355A)	3
Inorganic Chemistry (Chemistry 325)	3
Introduction to Physical Chemistry	
(Chemistry 361A,B)	6
Career Options in Chemistry (Chemistry 490A)	1
Senior Research (Chemistry 495)	2
Total	15
Other Requirements Un	its
Advanced College Writing (English 301 or 360)	3
Computer Programming (Engineering 205	
or Computer Science 112)	3
Remainder of general education and elective	
units	56
Total	72

MINOR IN CHEMISTRY

A minor in Chemistry requires a minimum of 24 acceptable units of chemistry, including general chemistry (Chemistry 120A,B) plus 14 units of upper-division chemistry courses. (The following upper-division chemistry courses are not applicable toward a minor: Chemistry 480A, 490A, 490B, 495, 496 and 499). These courses must be completed with an overall GPA of 2.0.

The chemistry minor is appropriate for students majoring in a number of areas. Some upper-division course combinations which constitute appropriate minors are: Medical Technology: Chemistry 301A,B, 302, 430. Molecular Biology: Chemistry 301A,B, 302, 421A,B. Geological Sciences: Chemistry 301A, 315, 361A,B or 325. Physics: Chemistry 301A,B, 315, 371A,B. Science Education: Chemistry 301A,B, 361A,B, 325. Other areas where a minor in chemistry would be appropriate include Art Restoration, Forensic Science, Industrial Administration, Science Writing, and Environmental or Patent Law. Students with interests in these or other areas should consult the chemistry undergraduate adviser about courses appropriate for a minor.

MINOR IN BIOTECHNOLOGY

See description of this minor under the Department of Biological Science.

REQUIREMENTS FOR CHEMISTRY MAJORS SEEKING A TEACHING CREDENTIAL

To qualify for a waiver from the examination for a single subject credential in Physical Science, students should elect the B.A. under option one with the following changes:

- 1. Students should take Science Education 312 instead of Chemistry 495 Senior Research.
- 2. Students must take: Biology 131; and 241 or 261.
- 3. Students must take Physics 225A,B,C and 225AL BL,CL instead of Physics 211A,B and 211AL,BL.

4. Students must take these additional courses: Geological Sci 101,101L, and 201 and Physics 200.

MASTER OF SCIENCE IN CHEMISTRY

The degree is designed to qualify students for more advanced work in chemistry, to provide preparation which will lead to responsible positions in industrial or government research and development laboratories, and to provide preparation for the effective teaching of chemistry in the high schools and community colleges.

The program provides fundamental courses at a level and depth commensurate with those taken during the first year of a doctoral program and provides an introduction to research and research methods.

Admission monteroliped Insurance O

Students must meet the university requirements for admittance to the university. This normally requires a baccalaureate degree from an accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted. (See the section of this catalog on Graduate Admissions for a complete statement and procedures.) In addition to university requirements, in order to achieve conditionally classified standing in the chemistry program, a student must meet the following requirements:

- 1. An undergraduate degree in chemistry or a selection of science courses deemed as adequate preparation for further study in chemistry by the Department Graduate Committee; and
- 2. A 2.5 GPA in upper division chemistry courses.

Classified Standing

Each student is required to take qualifying examinations in the areas of physical and organic chemistry plus two from the areas of analytical, inorganic or biochemistry. The results of these examinations are used in advising the student and as criteria for advancement to classified standing. In order to proceed from conditionally classified to classified standing, the student must meet the following requirements:

- 1. Satisfactory grades on three of the four qualifying examinations or completion of department approved courses in these areas with grades of B or better;
- 2. Approved selection of a research director Geoldgical Sci 404 n Bittingraphy and
- 3. An approved study plan. constatione, dhours lattequand
- 4. The University graduate level writing requirement.

The department's foreign or computer language requirement, to be demonstrated before advancement to candidacy, may be met in any one of the following ways: (1) by passing 10 semester units of an approved foreign language (e.g., Chinese, French, German, Japanese or Russian) at the college level; (2) by passing an approved challenge examination in a foreign language; or (3) by passing 6 semester units of computer language course or 3 semester units of a computer language course and Chemistry 517 (Computational Chemistry). If Chemistry 517 is counted as part of the language requirement, it cannot be included in the student's study plan. Courses in computer language which currently are suitable are Computer Science 112 and 121 and Engineering 205 and 403.

Study Plan

Two alternatives are available for the study plan. The student can do either a laboratory thesis (preferred) or a library thesis.

The degree program consists of 30 units of graduate committeeapproved course work completed with a minimum grade-point average of 3.0 in all course work exclusive of Chemistry 505A,B and 599. Each student prepares a study plan in consultation with the graduate program adviser which must be approved by the student's research director, the department, Internal Affairs Committee and the dean of graduate studies. All chemistry courses on the study plan must be 400 level or above.

Study plans may contain no more than 2 units of Chemistry 505, and no more than 6 units of Chemistry 599 (3 units for students electing the library thesis alternative).

a services dogressile soles of presented by the Units 1. Basic requirements Basic requirements

Courses required of all students: Chemistry 505A, B Seminar Chemistry 599 Independent Graduate Research 3 Chemistry 598 Thesis 1-6

2. 500-level Requirements

Each student is required to take at least two 500-level courses other than those listed above. A minimum total of 15 units of 500-level courses is required.

3. Specialization Requirements

The courses in the study plan must include a minimum of nine units (not including Chemistry 505A, B, 598, 599) in one of the following areas of specialization, including related areas: (1) analytical chemistry; (2) biochemistry; (3) inorganic chemistry; (4) organic chemistry; (5) physical chemistry.

4. Breadth Requirements

In order to insure sufficient breadth and background, one course is required from each of the following groups if the student has not passed (with a B or better) an equivalent course as an undergraduate. However, courses taken as an undergraduate cannot be applied to the 30 units required for graduation, unless they are in excess of the undergraduate degree requirement.

tinn, Japanese or Russian) at the college levels (2) by russing
Group I gone examination in a foreign language que of
Chemistry 411 Instrumental Analysis 4
Chemistry 425 Advanced Inorganic Chemistry 3
(Computational Chemistry), If Chamistry, 517,68 counted as p
of the Isnguage requirement, to cappor be includ II quoro
Chemistry 423A General Biochemistry
Chemistry 431 Advanced Organic Chemistry 3
205 and 403.
Group III
Chemistry 550 Advanced Thermodynamics 3
Chemistry 551 Quantum Chemistry 3

Students specializing in biochemistry may, upon approval of the graduate adviser, substitute Chemistry 543, Physical Biochemistry, in place of 550 or 551; but in that case, 543 may not be applied toward the specialization requirement (3 above).

Course work applicable to the areas of nutritional biochemistry, clinical chemistry, trace analysis and toxicology is available and may be planned in consultation with the graduate adviser of the Chemistry Department. For further details or advisement concerning the M.S. program, contact the graduate adviser.

Emphasis in Geochemistry

This option is designed for students with a solid base in chemistry and geology; who are preparing either for continuation of studies toward a Ph.D. in geochemistry, or for direct job entry as a geochemist. The aggregate of courses is designed to provide the depth and breadth of fundamentals required for a successful career in geochemistry.

Prerequisites

The prerequisites are the same as for the M.S. degree in chemistry except that to achieve conditionally classified standing, a student must meet the following requirements:

- 1. An undergraduate degree in either chemistry or geology (or equivalent title), with at least 20 semester units in geology for the chemist and 26 semester units in chemistry for the geological scientist, or a combination of chemistry and geology courses which the geochemistry graduate committee deems to be adequate preparation.
- 2. A 2.5 GPA in upper-division chemistry and geology courses.

Each student is required to take qualifying examinations in the areas of physical chemistry and geology plus two from the areas of analytical chemistry, inorganic chemistry, or organic chemistry. See the M.S. degree in chemistry for additional prerequisites.

course as an undergraduate. However, courses 'nal' ybus'

The study plan for the degree is the same as for the M.S. in Chemistry with changes of items 3 and 4 as follows:

3. Specialization Requirements Constraint aum amabure

Area of Specialization (9 units)

The courses in the study plan must include a minimum of nine units (not including Chemistry 505A, B, 598, 599) in the area of specialization with at least six of these units at the 500 level. Courses in the area of specialization must be taken from both geology and chemistry and must include either Geological Sciences 406 or 506. Courses appropriate for a specialization in geochemistry are as follows:

Units

	A.	Geological Sci 506 — Topics in Geochemistry of T
		Isotope Geochemistry
		Aqueous Geochemistry
		Crystal Chemistry3
		Solid Phase Geochemistry 3
		Geochemical Exploration
	D	500-Level Chemistry
	D.	Chemistry 511 Theory of Separations
		Chemistry 580 Topics in Advanced
		Chemistry Chemistry
	C.	Undergraduate Courses
		Geological Sci 406 Geochemistry 3
		Geological Sci 407 Instrumental Methods
		in Geological Sciences
4.	Bre	adth Requirements
	stud	order to ensure sufficient breadth and background, each dent is required to take one course from each of the follow-groups if he/she has not passed with a B or better an

ing groups if he/she has not passed with a B or better an equivalent course as an undergraduate. However, courses taken as an undergraduate cannot be applied to the 30 units required for graduation.

Units

vancement to classified standing. In order to proceed quorDandi-

Chemistry 425 Advanced Inorganic

Chemistry 3
Geological Sci 400 Optical Methods 3
tions or collepterior and entirementary and extended in a
Group II TEACHING fortied to H Habberg this aseas
Chemistry 423A General Biochemistry 3
Chemistry 431 Advanced Organic Chemistry 3
Geological Sci 404 Petrography3
3. An approved study plan
Group III
Chemistry 550 Advanced Thermodynamics

For further details or advisement, please contact the graduate adviser of the Chemistry Department or the Geological Sciences Department.

Chemistry 551 Quantum Chemistry

Chemistry and Biochemistry Courses

100 Survey of Chemistry (3)

Prerequisite: one year of high school algebra. The fundamental principles of chemistry; atomic and molecular structure and the application of these principles to contemporary problems. For the nonscience major. (3 hours lecture)

100L Survey of Chemistry Laboratory (1)

Prerequisite: concurrent enrollment in Chemistry 100. Experiments chosen to develop laboratory techniques; chemical principles and their application to environmental and societal problems. (3 hours laboratory). Instructional materials fee required (refundable).

111 Nutrition and Drugs (3)

The basics of nutrition; diet, food additives, vitamins, hormones, drugs, disease and related biochemical topics. Current controversies, popular practices, fads and fallacies. For the non-science major. (3 hours lecture)

115 Introductory General Chemistry (4)

Prerequisite: one year of high school algebra. Chemistry at the basic level. For students with limited background in chemistry who plan to take additional chemistry or other science courses. Does not fulfill chemistry requirements for majors or minors in the physical or biological sciences. (3 hours lecture, 3 hours laboratory) Instructional materials fee required (refundable).

120A,B General Chemistry (5,5)

Prerequisites: two years of high school algebra plus one year of high school chemistry with a grade of B or better or Chemistry 115 with a grade of C or better or Mathematics 125 with a grade of C or better. High school physics strongly recommended. For majors and minors in the physical and biological sciences. Instructional materials fee required (refundable). A - The principles of chemistry: stoichiometry, acids, bases, redox reactions, gas laws, solid and liquid states, changes of state, modern atomic concepts, periodicity and chemical bonding. Laboratory: elementary physical chemistry and volumetric quantitative analysis. (3 hours lecture, 6 hours laboratory) (Instructional materials fee required.) B - Chemical thermodynamics, chemical equilibrium (gaseous, aqueous, acid-base, solubility and complexion), elementary electrochemistry and chemical kinetics. Laboratory: quantitative analysis and elementary physical chemistry; some qualitative analysis. (3 hours lecture, 6 hours laboratory) 430 a Cliffical Chemistre (2) brass noisivib-recon sensition

125 General Chemistry for Engineers (3)

Prerequisites: Chemistry 120A and a major in engineering. The topics are the same as Chemistry 120B but without laboratory. Not open to students with credit in Chemistry 120B. (3 hours lecture).

196 Student-to-Student Tutorials (1-3)

Supervised experience in chemistry teaching through tutoring or assisting in lower-division laboratory or field classes. Consult "Student-to-Student Tutorials" in this catalog for prerequisites and a more complete course description.

295 Directed Study (1)

Prerequisite: consent of instructor. Research in chemistry under the supervision of a chemistry department faculty member. Credit/no credit only. May be repeated for credit. Does not count towards major. All undergraduate students engaged in a chemistry research project must be enrolled in either Chemistry 295 or 495. (3 hours laboratory per unit)

301A,B Organic Chemistry (3,3)

Prerequisite: Chemistry 120A, B. Properties and reactions of aliphatic and aromatic compounds, theories of structure, and reaction mechanisms. For the nonchemistry major or for a B.A. in Chemistry. (3 hours lecture)

302 Organic Chemistry Laboratory (2)

Prerequisite: Chemistry 301A. Corequisite: Chemistry 301B. Techniques for the synthesis, characterization and isolation of typical aliphatic and aromatic compounds. (6 hours laboratory) Instructional materials fee required (refundable).

302A,B Organic Chemistry Laboratory (1,1)

Chemistry 302A must be taken concurrently with Chemistry 301A. Techniques for the synthesis, isolation and characterization of typical aliphatic and aromatic compounds. Students wishing to fulfill all of their organic chemistry laboratory requirements in a single semester should enroll in Chemistry 302. Instructional materials fee required (refundable).

305A,B Organic Chemistry (5,5) and language of the control of

Prerequisite: Chemistry 120A, B. Lecture: properties and reactions of aliphatic and aromatic compounds, theories of structure, and reaction mechanisms. Laboratory: techniques for the synthesis, characterization and isolation of typical aliphatic and aromatic compounds, with applications of instrumental and spectroscopic methods. Designed for students in the B.S. program. (3 hours lecture, 6 hours laboratory) Instructional materials fee required (refundable).

311 Nutrition and Disease (3)

Prerequisites: Chemistry 111 and Biology 101. Relationship between nutrients and disease, with an emphasis on cancer, atherosclerosis and infectious illness. Dietary factors that modify and/or contribute to the disease process from the viewpoints of physiology, biochemistry and immunology. (Same as Biology 311.) (3 hours lecture)

315 Theory of Quantitative Chemistry (Lecture) (3)

Prerequisite: Chemistry 301A or 305A. Physics 211A, B or Physics 225A,B strongly recommended. Modern analytical chemistry; aqueous and nonaqueous equilibrium calculations, electrochemistry, spectrometry, and contemporary separation methods with emphasis on chromatography. (3 hours lecture)

321 Molecules and Life (3)

Prerequisites: Completion of general education requirements in fundamentals of physical and biological science. Relationship of molecules and chemical principles to life processes. Historical development of concepts and issues, including the question of reducing biological phenomena to physical law. (Same as History 321.) (3 hours lecture)

325 Inorganic Chemistry (3)

Prerequisites: Chemistry 301A,B or 305A,B. The chemistry of the main group elements and an introduction to transition metal chemistry. (3 hours lecture)

351 Introduction to Biochemistry (3)

Prerequisites: one year of organic chemistry (Chemistry 301A,B and 302) and one introductory course in biology. A survey of the chemical reactions in living systems; the metabolism of carbohydrates, lipids and proteins. Not acceptable for the biochemistry requirements of the B.S. and B.A. programs. (3 hours lecture)

352 Introductory Biochemistry Laboratory (1)

Prerequisites: Chemistry 301B and 302, or Chemistry 305B. Corequisite: Chemistry 351, 421A or 423A. Introduction to quantitative biomedical methods, instrumentation and experimentation, with emphasis on enzymology and metabolic experiments. (3 hours laboratory) (Instructional materials fee required.)

355A,B Integrated Laboratory (3,3)

Prerequisite: Chemistry 301A, B and 302, or Chemistry 305A, B. Corequisites: Chemistry 315 for 355A; Chemistry 361B or 371B and Computer Science 112 or the equivalent for 355B. Experiments in chemical synthesis, instrumental analysis and physical chemistry. Laboratory training and written presentation of theory, data and results are emphasized. (1 hour lecture, 6 hours laboratory) Instructional materials fee required (refundable).

361A,B Introduction to Physical Chemistry (3,3)

Prerequisites: Mathematics 150A,B; Physics 211A,B or 225A,B, Chemistry 301A,B or 305A,B. Thermodynamics and kinetics; properties of gases and solutions; molecular structure and energies and application to spectroscopic techniques; liquids, phase equilibria, thermodynamics of multicomponent systems with application to the life sciences. (3 hours lecture)

371A,B Physical Chemistry (3,3)

Prerequisites: Mathematics 250A, Physics 225A, B and Chemistry 305A, B. Corequisite: Mathematics 250B. Thermodynamics, solutions, chemical and phase equilibria, electrochemistry, transport phenomena, introduction to atomic and molecular structure, rotation and vibration spectroscopy, statistical mechanics, kinetics. The use of fundamental principles to solve problems. (3 hours lecture)

403 Analysis of Organic Compounds (4)

Prerequisites: Chemistry 301A, B and 302 or 305A, B. Chemistry 355A. Isolation and identification of organic compounds using chemical and instrumental techniques. (2 hours lecture, 6 hours laboratory) Instructional materials fee required (refundable).

411A-F Instrumental Analysis (1-4)

Prerequisites: Chemistry 315 and 355A or 422A. Corequisites: Chemistry 371B or 361B. 1 unit modules: A — Optical Spectroscopy (UV/visible, infrared, atomic absorption, flame emission) Instructional materials fee required (refundable); B — Magnetic Resonance (nuclear magnetic resonance, electron spin resonance) Instructional materials fee required (refundable); C — Separations (high performance liquid chromatography, gas chromatography/mass spectrometry) Instructional materials fee required (refundable); D — Electrochemistry (polarography (d.c., pulse, a.c.), cyclic voltammetry, coulometry); E — Radiochemistry; F — Computers and Interfacing. Students wishing an ACS approved degree must take three units. (2 hours lecture, 6 hour laboratory) Instructional materials fee required (refundable).

421A,B Biological Chemistry (3,3)

Prerequisite: Chemistry 301A,B and Chemistry 302. Corequisite: Biology 315. Major areas of biochemistry, including chemistry and functions of compounds of biochemical interest. Mechanisms and thermodynamics of intermediary metabolism. Biochemical foundations of the health sciences. Designed for biology majors. (3 hours lecture)

422A,B General Biochemistry Laboratory (2,2)

Prerequisites: concurrent or prior enrollment in Chemistry 421A,B or 423A,B. The chemistry and metabolism of carbohydrates, nucleic acids, lipids and proteins; techniques of enzyme chemistry and isolation; research methods. (6 hours laboratory) Instructional materials fee required (refundable).

423A,B General Biochemistry (3,3)

Prerequisites: Chemistry 301A, B and 302 or Chemistry 305A, B; Chemistry 315. Corequisite: Chemistry 361A or 371A. Survey of biochemistry; structural chemistry and function of biomolecules, bioenergetics and intermediary metabolism; replication and expression of the genetic material. Designed for chemistry majors. (3 hours lecture)

425 Advanced Inorganic Chemistry (3)

Prerequisites: Chemistry 325 and 361A, B or 371A, B. The bonding, structure and reactivity of transition and lanthanide elements. Molecular orbital and ligand field theory, classical metal complexes and organometallic chemistry of the transition elements. (3 hours lecture)

430 Clinical Chemistry (2)

Prerequisites: Chemistry 421A or Chemistry 423A. Biochemistry of disease, emphasizing our understanding of the biochemical phenomena, principles and theory underlying the use of common laboratory tests to assess human health. Instructional fee required (refundable). (2 hours lecture)

430L Clinical Chemistry Laboratory (2)

Prerequisites: Chemistry 422A and either Chemistry 421A or 423A. Corequisite: Chemistry 430. Practice in clinical chemistry: Solutions, quantitative analysis, theory and application of common tests used to monitor human health and disease. Instructional materials fee required (refundable). (6 hours laboratory)

431 Advanced Organic Chemistry (3)

Prerequisites: Chemistry 361A, B or 371A, B. Theoretical and physical aspects of organic chemistry. The modern concepts of structure, and reaction mechanisms. (3 hours lecture)

445 Nutritional Biochemistry (3)

Prerequisites: Chemistry 423A or Chemistry 421A, or one semester biochemistry. Nutrition, metabolism and excretion of carbohydrates, proteins, fats, vitamins, major minerals and trace elements from a biochemical perspective. Relevant variations in dietary practices related to life stages and specific illnesses. (3 hours lecture)

472A Advances in Biotechnology laboratory (3)

Prerequisites: Biology 320L or Chemistry 422A. Corequisite: Biology 412. First semester exploring biotechnology techniques for DNA cloning and analysis: restriction enzyme cutting, DNA sequencing, sequence analysis by computer, plasmid cloning, genomic library production and screening, DNA probe hybridization.

472B Advances in Biotechnology Laboratory (3) (Same as Biology 472B)

480A Topics in Contemporary Chemistry (1)

Prerequisite: upper-division standing in chemistry. Research seminar dealing with topics of current interest in chemistry such as photochemistry, biochemistry, analytical chemistry and organometallic chemistry. Credit/no credit only. Not applicable toward master's degree. May be repeated for credit.

480B Topics in Contemporary Chemistry (2-3)

Prerequisite: upper-division standing in chemistry. Special lecture topics of current interest in chemistry. May be repeated for credit. (1 hour lecture per unit)

490A Career Options in Chemistry (1)

Prerequisites: upper-division standing in chemistry; Chemistry 355A or 422A; and consent of instructor. Career options in chemistry. Credit/no credit only. (1 hour lecture)

490B Internship in Chemistry (1-2)

Prerequisites: upper-division standing in chemistry; Chemistry 355A or 422A; and consent of instructor. Internship in chemistry. Work in projects in industrial, governmental or medical laboratories. May count as career breadth requirement units for chemistry majors. May be repeated once. Does not count toward M.S. degree.

495 Senior Research (1-3)

Prerequisites: three one-year courses in chemistry, senior standing and consent of instructor. The methods of chemical research through a research project under the supervision of one of the Chemistry Department faculty. May be repeated for credit. Only 6 units may apply toward B.A. or B.S. degree (3 hours per week

496 Student-to-Student Tutorials (1-3)

Supervised experience in chemistry teaching through tutoring or assisting in laboratory or field classes. Consult "Student-to-Student Tutorials" in this catalog for prerequisites and a more complete course description.

499 Independent Study (1-3)

Prerequisites: upper-division standing and completion of two one-year courses in chemistry. Special topics in chemistry selected in consultation with the instructor and approval of department chair. May be repeated for credit. Only six units may apply toward B.A. or B.S. degree.

505A Seminar (Participation) (1)

Prerequisites: graduate standing and consent of department. Student attendance at presentations by invited scientists on topics of current interest in chemistry. May not be repeated for credit. (1 hour seminar)

505B Seminar (Presentation) (1)

Prerequisites: Chemistry 505A, graduate standing and consent of the department. Student presentation of recent contributions to the chemical literature. May not be repeated for credit. (1 hour seminar)

511 Theory of Separations (3)

Prerequisites: Chemistry 355A and 361A,B or 371A,B. The theory, application and limitations of physical and chemical separation techniques; chromatography. (3 hours lecture)

512 Electroanalytical Chemistry (4)

Prerequisites: Chemistry 355A and 361A, B or 371A, B. Potentiometry, amperometry, electroanalysis, coulometry, conductometry, polarography, single and multiple sweep voltammetry, chronopotentiometry and chronoamperometry. (2 hours lecture, 6 hours laboratory)

517 Computational Chemistry (3)

Prerequisites: Chemistry 355A or 422A; 361A,B, 371A,B; and Computer Science 112 or 121 or Engineering 205. Computational methods applied to the solution of chemical problems. (3 hours

535 Organic Synthesis (3)

Prerequisite: Chemistry 371A, B. Methods of synthetic organic chemistry and their application to construction of organic molecules. (3 hours lecture)

539 Chemistry of Natural Products (3)

Prerequisite: Chemistry 301A,B or 305A,B. The biosynthesis of the alkaloids, terpenes, steroids and other natural products of plant and animal origin. (3 hours lecture)

540 Chemistry of Proteins (3)

Prerequisite: Chemistry 421A or 423A. Theory and practice of the chemical modification of proteins; methods of protein structural analysis; comparative structural chemistry and evolution of proteins. (3 hours lecture)

543 Physical Biochemistry (3)

Prerequisites: Chemistry 361A, B or 371A, B, 421A, B or 423A, B or consent of instructor. Methods for measuring physical properties of proteins and nucleic acids in solution. Thermodynamic and hydrodynamic aspects. (3 hours lecture)

544 Bioenergetics (3)

Prerequisite: Chemistry 421B or 423B. Mechanisms of membrane energy transduction in oxidative phosphorylation, transport, biomechanical work and photosynthesis. Chemiosmotic theory and analysis of current research. (3 hours lecture)

546 Metabolism and Catalysis (3)

Prerequisite: Chemistry 421A, B or 423A, B or consent of instructor. Regulation of biosynthetic and degradative reactions in living systems. The control of enzyme activity and concentration. Mechanisms of hormone action. (3 hours lecture)

550 Advanced Thermodynamics (3)

Prerequisite: Chemistry 371A,B. Advanced chemical and statistical thermodynamics. (3 hours lecture)

551 Quantum Chemistry (3)

Prerequisite: Chemistry 371A,B. Postulates and theories of approximation methods in quantum chemistry, the electronic structure of atoms and molecules, chemical bonds, group theory and applications. (3 hours lecture)

580 Topics in Advanced Chemistry (1-6)

Prerequisites: graduate standing in chemistry. Current research topics in chemistry in the areas of analytical, organic, inorganic, physical and biochemistry. May be repeated for credit. (1 hour seminar per unit)

598 Thesis (1-6)

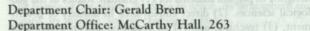
Prerequisite: an officially appointed thesis committee. Guidance in the preparation of a thesis for the master's degree.

599 Independent Graduate Research (1-6)

Prerequisite: graduate standing in chemistry. May be repeated for credit

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Department of Geological Sciences



Programs Offered

Bachelor of Science in Geology Minor in Geology

(Master of Science in Chemistry, Geochemistry Emphasis, offered jointly by the Departments of Chemistry and Biochemistry and Geological Sciences) The department often as in erables program through Cooleds.
Sciences 495. This allows the student to obtain on the lythese

Gerald Brem, Gaylen Carlson, John Cooper, Neil Maloney, Brady Rhodes, John Ryan, Prem Saint, Margaret Woyski

B.S. in Geology: undergraduate adviser. Geochemistry Emphasis, M.A. in Chemistry: Gene Hiegel (Department of Chemistry), Gerald Brem, Geological Sciences. Earth Science Education: Gaylen Carlson. All students must receive advisement immediately upon entering the major in order to design a course progression. First-year students must meet with their adviser at least twice during that year. All others must be advised at least once a year. The adviser also acts to assist the student should problems arise. In swarf saum amabana, compab 28.8 ado not videup

INTRODUCTION

Geological sciences is the study of the Earth, its physical nature, chemical composition and dynamics, as well as its origin, evolution, present state and future. In addition to the quest for understanding the way the Earth works and its relation to the solar system, geological scientists are involved in the search for energy, mineral and water resources, the evaluation and remediation of environmental hazards, and the prevention and/or prediction of natural disasters such as earthquakes, volcanic eruptions, landslides, coastal erosion, and floods. About 60% of all geological scientists are employed by private industry, primarily by engineering, environmental, petroleum and mining companies. Others are employed by government agencies, educational institutions and research centers.



These are to be taken in geological sciences, related fields and/or

Within the general field of geological sciences the department has six major areas of study: geology, geochemistry (the integration of geology and chemistry), geophysics (the integration of geology and physics), hydrogeology (the integration of geology with fresh water systems), engineering geology (the integration of geology and engineering) and geological oceanography. All are designed to prepare students for (1) graduate studies in the geological sciences, (2) direct employment in industry or government, (3) teaching, and (4) an avocation and an appreciation and understanding of the earth.

Evening Program

The department offers an evening and weekend program of courses that satisfy requirements for the major with the exception of the four-week field camp. Consult the department for details.

Internships

The department offers an internship program through Geological Sciences 495. This allows the student to obtain on-the-job experience in the geological sciences. Three units maximum are permitted toward the degree.

Recommended Program in General Education

The department maintains a list of preferred general education courses. A copy can be obtained by visiting or telephoning the department office.

BACHELOR OF SCIENCE IN GEOLOGY

Of the 130 units required for graduation, 44 are in geological sciences, 34 to 37 in related fields, 39 in general education courses (other than related fields) and the remaining 10 to 13 undesignated units are selected to meet particular needs of each student. To qualify for the B.S. degree, students must have a C or better in all geological sciences courses taken to meet the 44 unit requirement; students must have a C average in required courses in related fields. A proficiency in a modern foreign language, or a computer language, is recommended for students who plan to continue in graduate school. Proficiency in English composition is required.

Minimum Course Requirements for the Major

Geol Sciences 101, 101L Physical Geology (3,1)

Geol Sciences 201 Earth History (4)

Geol Sciences 303A,B Mineralogy & Petrology (3,4)

Geol Sciences 321 Sedimentation and

Stratigraphy (4)

Geol Sciences 360 Structural Geology (3)

Geol Sciences 380 Geol. Field Techniques (4)

(Meets requirement for upper-division writing course.)

Geol Sciences 498 Senior Thesis (1-2)

One course from the following:

Geol Sciences 333 Oceanography (3)

Geol Sciences 335 General Hydrology (3)

Geol Sciences 356 Introduction to Applied Geophysics

Geol Sciences 406 Geochemistry (3)

One course from the following:

Geol Sciences 435 Hydrology Field Camp (4)

Geol Sciences 481 Geology Field Camp (4)

Adviser-approved Geol Sciences Electives (9-10 units)

No more than 4 units from any combination of Geol Sciences 495, 496L and 499L can be counted toward meeting this 9-10 unit requirement.

(Note: Geol Sciences 120, 120L, 140, 310, and 376 are not accepted as credit toward meeting requirements for the major.)

Minimum Requirements in Related Fields. (nine courses required, 34-37 units)

Biological Science 101 Elements of Biology (3)

or 131 Principles of Biology (3) Chemistry 120A and 120B General Chemistry (5,5)

Comp Sci 103 Introduction to Personal

Computer Applications (3)

or Comp Sci 112 Introduction to Computer Programming (3)

or Comp Sci 121 Programming Concepts (4)

or Engineering 205 Digital Computation (3)

Mathematics 150A and 150B Analytic Geometry and Calculus (4,4).

Physics 225A, 225AL Fundamental Physics — Mechanics (3,1) and either 225B, 225BL Fundamental Physics - Electricity and Magnetism (3,1), or 225C, 225CL, Fundamental Physics — Modern Physics (3,1). Alternatively, 211A, 211AL, 211B, 211BL Elementary Physics (3,1,3,1), with consent of adviser.

One additional semester course selected with approval of adviser from courses such as the following:

Biology 316, 401, 406, 419, 461

Chemistry: 301A, 315, 325, 361A

Computer Science: 241

Engineering: 102, 202, 301, 304, 324, 436

Geography: 312, 381, 384 Mathematics: 250A, 250B, 338

Physics: 225B, 225BL, 225C, 225CL, 310, 320, 330

Undesignated Units (10-13 units required)

These are to be taken in geological sciences, related fields and/or career-support fields, with adviser approval.

General Education (39 units required, other than related fields) Consult your adviser for proper course selection.

MINOR IN GEOLOGICAL SCIENCES

A minimum of 20 units in geological sciences courses, of which at least 12 must be upper division and at least 6 of these 12 must be taken in residence, is required for a minor. The courses shall be selected by the student in consultation with an adviser. Prospective teachers should include courses in physical geology, earth history, meteorology, oceanography, mineralogy and petrology. Geological Sciences 120, 120L, 140, 310 and 376 are not acceptable as part of the 20 units.

Credentials Program

To qualify for a waiver from the examination for a Single Subject Credential in Physical Science, the following courses are required in addition to those for the B.S. degree in Geology:

Chemistry 301A, B. Physics 225A, B, C, 225AL, BL, CL, and 200. Geological Sciences 340 Biological Sciences 101 (and 101L) or 131, and either 241 or 261.

MASTER OF SCIENCE IN CHEMISTRY. **GEOCHEMISTRY EMPHASIS**

See Master of Science in Chemistry in the Department of Chemistry and Biochemistry section of this catalog.

Geological Sciences Courses

For all courses, prerequisites may be waived if the instructor is satisfied that the student is qualified to take the course.

All lower-division (100-200 level) courses are offered each semester. The department plans to offer in 1991-93 Geological Sciences 303B, 360, 380 and 435 each fall, Geological Sciences 303A, 304, 321, 335 and 481 each spring and the remaining courses on a three- to four-semester rotation. A schedule of projected class offerings is available from the department. 120B, Mathematics 150B. Bante chemical and thermodynamic

101 Physical Geology (3) Prerequisite: high school chemistry or physics, or equivalent. The physical nature of the planet earth, the genesis of rocks and minerals, erosion processes and their effects. (101 & 101L: CAN GEOL 2), yel anorason composition and anorason of normalization of rock and managed and second or second o

101H Physical Geology (Honors) (3)

Prerequisite: high school chemistry or physics, or equivalent. The physical nature of the planet earth, the genesis of rocks and minerals, erosion processes and their effects. (Weekend field trips) Topics in Geological Sciences (253) and trips)

101L Physical Geology Laboratory (1)

Corequisite: Geological Sciences 101. Laboratory on minerals, rocks, earthquakes, and map and aerial photographic interpretation. (3 hours laboratory or field trip) (101 & 101L: CAN GEOL 2) 101LH Physical Geology Laboratory (Honors) (1)

Corequisite: Geological Sciences 101 or 101H. Laboratory on minerals, rocks, earthquakes, and map and aerial photographic interpretation. (3 hours laboratory and weekend field trips)

120 Introduction to Earth Science (3)

The nature of our planet, its place in space, its atmosphere and oceans, its interior, and its changing surface.

120L Earth Science Laboratory (1)

Corequisite: Geological Sciences 120. Rock and mineral identification, fluvial and marine processes, land-form recognition from topographic maps, geologic maps, air and space photographs. (3 hours laboratory)

140 Earth's Atmosphere (3)

The composition, structure and circulation of the atmosphere; the origins of storms and other weather disturbances.

201 Earth History (4)

Prerequisite: Geological Sciences 101, 101L. Evolution of the earth as interpreted from rocks, fossils and geologic structures. Plate tectonics provides a unifying theme for consideration of mountain building, evolution of life and ancient environments. (2 hours lecture, 6 hours laboratory, field trips) (CAN GEOL 4)

303A Mineralogy and Introduction to Petrology (3)

Prerequisites: Geological Sciences 101, 101L, Chemistry 120A; concurrent enrollment in Geological Sciences 304 recommended. Crystallography; origin, occurrence, composition and identification of minerals; rock-forming minerals. (2 hours lecture, 3 hours laboratory, field trips)

303B Igneous and Metamorphic Petrology (4)

Prerequisites: Chemistry 120A; Geological Sciences 303A, 380. Description, classification, occurrence and origin of igneous and metamorphic rocks. (2 hours lecture, 6 hours laboratory, field

304 Mineral Recognition (1)

Prerequisite or corequisite: Geological Sciences 303A or equivalent. Laboratory practice in recognition and identification of minerals and crystals. (3 hours laboratory, field trips)

310 Topics in California-Related Geology (1-3)

Directed investigations of one aspect of earth science. Alternating topics are: geology of national parks, California geology, ocean off California, California earthquakes, geological hazards of California, and California gems and minerals. May be repeated for credit with a different topic. (3 hours lecture for 5, 10, or 15 weeks, optional field trips)

321 Sedimentation and Stratigraphy (4)

Prerequisites: Geological Sciences 201, 303B, 380. Textural, mineralogic properties of sediments used in discrimination of depositional conditions, environments, classification of sedimentary rocks, study of stratigraphic patterns. (2 hours lecture, 6 hours laboratory, field trips)

322 Principles of Paleontology (3)

Prerequisites: Geological Sciences 201; Biology 101 or 261 or equivalent. The groups of organisms that have left an important fossil record. Taxonomy, morphology and systematics, biostratigraphy, paleoecology, and evolutionary trends. (2 hours lecture, 3 hours laboratory, field trips)

333 Oceanography (3)

Prerequisite: Geological Sciences 101; Mathematics 150A; Physics 225A, 225AL or 211A, 211AL. The chemical, physical and geological nature of the oceans. (2 hours lecture, 3 hours laboratory, field trips)

335 General Hydrology (3)

Prerequisites: Geological Sciences 101; Mathematics 150A. Nature, occurrence, movement of surface and groundwater. Rainfall/runoff relation, floods, aguifer evaluation, and water quality investigation. (2 hours lecture, 3 hours laboratory, field trips)

340 General Meteorology (3)

Prerequisites: Geological Sciences 101; Mathematics 150A; Physics 225A, 225AL or 211A, 211AL. Atmospheric processes, composition and structure. Radiation, thermodynamics of moist air, precipitation mechanisms, atmospheric dynamics. Map analysis and use of thermodynamic diagrams.

355 Earth's Interior (3)

Prerequisites: Geological Sciences 101; Physics 225A, 225AL or 211A, 211AL; Chemistry 120A or equivalent. Geophysical, geochemical properties of mantle and core. Data collection techniques. Impact of internal processes on crustal/surface phenom-Picked pierter Chemisa + 120A; Godogical Science + 103 A.

356 Introduction to Applied Geophysics (3)

Prerequisites: Geological Sciences 101, 101L; Physics 225A, 225AL or 211A, 211AL. Seismic refraction, gravity, magnetic and electrical techniques and fundamentals as applied to determination of subsurface structure, groundwater and location of mineral resources. (2 hours lecture, 3 hours laboratory, field trips) trips)

360 Structural Geology (3)

Prerequisites: Geological Sciences 303A, 303B, 380; Physics 225A, 225AL or 211A, 211AL. Faults, folds, mechanics of rock deformation, and elementary tectonics; solution of problems by geometric, trigonometric and stereographic analysis. (2 hours lecture, 3 hours laboratory, field trips) at high leading alsow

370 Urban Geology and Planning (3)

Prerequisites: Geological Sciences 101 or equivalent. Geologic hazards and man's interaction with earth processes and earth resources. Environmental planning and management. (2 hours lecture, 3 hours laboratory, field trips)

375 Engineering Geology (3)

Prerequisites: Geological Sciences 380; Mathematics 150A; Physics 225A, 225AL or 211A, 211AL. Engineering properties of rocks and soils; exploration techniques; analysis of geological science principles applicable to engineering problems; report preparation and professional responsibility. (2 hours lecture, 3 hours laboratory or field trips)

376 Applied Geology (3)

Prerequisites: Mathematics 130, 135 or 150A; Geological Sciences 101 and one semester university-level physics recommended. Geology applied to engineering works. Earth materials, processes; site evaluation techniques; geologic hazard analysis; case histories. (2 hours lecture, 3 hours laboratory, field trips)

380 Geologic Field Techniques (4)

Prerequisites: Geological Sciences 201; English 101; trigonometry; Computer Science 103 or equivalent recommended. Brunton compass use, measurement of stratigraphic sections, principles of topographic maps and aerial photographs and use in geologic mapping, geologic map preparation, columnar sections, cross sections and technical reports. (2 hours lecture, 6 hours field, weekends) well as the first that the state of the

400 Optical Methods (3)

Prerequisites: Geological Sciences 303A; Physics 225C, 225CL or 211B, 211BL recommended. Principles of optical crystallography. Optical identification of minerals. Examination of rocks in thin section. (2 hours lecture, 3 hours laboratory)

404 Petrography (3)

Prerequisite: Geological Sciences 303B, 321, and 400. Composition, occurrence, and origin of igneous, sedimentary, and metamorphic rocks in microscopic study. (1 hour lecture, 6 hours ences 303B. 360, 380 and 488 each fall George 360E and

406 Geochemistry (3)

Prerequisites: Geological Sciences 303B and 321, Chemistry 120B, Mathematics 150B. Basic chemical and thermodynamic principles applied to the origin and alteration of igneous, sedimentary and metamorphic rocks and economic mineral deposits.

407 Instrumental Methods in Geological Sciences (3)

Prerequisites: Geological Sciences 303B; Chemistry 120A, B. Determination of rock and mineral compositions by density determinations, X-ray diffraction, X-ray fluorescence, atomic absorption spectrometry, differential thermal analysis, wet geochemical analysis, electron microprobe and mass spectrometry. (1 hour lecture, 6 hours laboratory)

410 Special Topics in Geological Sciences (2-3)

Prerequisite: junior or senior standing in Geological Science. Check with department for specific prerequisites for given topic. Research concepts such as plate tectonics, soil science, planetary science, petroleum geology, paleontology, marine geology or meteorology. Can be repeated for credit with different topic.

423 Advanced Sedimentology and Stratigraphy (3)

Prerequisites: Geological Sciences 303A and 321. Case histories from literature illustrate concepts, methods, and results in sedimentology/stratigraphy analysis. Field and lab work center around student research on actual problems; research to culminate in paper with professional format. (2 hours lecture, 3 hours laboratory, field trips)

435 Hydrology Field Camp (4)

Prerequisites: Geological Sciences 321, 335, 360, 380, or equivalent experience and consent of instructor. Hydrologic field mapping and techniques including stream gauging, aquifer tests and lake surveys. Final written report required. Instructional fee required. (45 hours a week for four weeks during summer)

436 Hydrogeology (3)

Prerequisites: Geological Sciences 335, 356, 360, or equivalent. Occurrence, movement and utilization of groundwater resources; geological, geophysical and hydrological methods for groundwater exploration and development. Well hydraulics and groundwater contamination. (2 hours lecture, 3 hours laboratory, field trips)

437 Water Quality Investigations and Control (3)

Prerequisites: Geological Sciences 335; Chemistry 120A, B. Methods in sampling strategy. Evaluation of chemical data for quantitative interpretation of water quality status and trends, surface and ground water. Techniques for graphic representation, water contamination source identification and control. (2 hours lecture, 3 hours laboratory and field trips)

455 Earthquake Seismology (3)

Prerequisites: Physics 225A, 225AL or 211A, B, 211AL, 211BL; Geological Sciences 355 recommended. Earthquake measurement, characteristics and mechanisms. Magnitude, intensity, source locating. Prediction and prevention principles and techniques. Seismic risk. Current research directions. Southern California seismicity including case study. (3 hours lecture, field trips)

460 Regional Tectonics (3)

Prerequisite: Geological Sciences 360. Discussion of recent literature on plate tectonics, tectonics of the world's major orogenic belts, and tectonics of California. (3 hours lecture, Spring-recess field trip)

471 Mineral Deposits (3)

Prerequisites: Geological Sciences 303B, 304; Chemistry 120A, or equivalent. Processes of mineral deposit formation; classification, characterization, and distribution of metallic and nonmetallic mineral deposits. (2 hours lecture, 3 hours laboratory, field trips)

481 Geology Field Camp (4)

Prerequisites: Geological Sciences 303B, 321, 360, 380. Geologic field mapping, operating from a field camp under primitive conditions in an area of varying geologic complexity. Field report, map and cross-sections required. Instructional fee required. (45 hours a week for four weeks during January) Department Chair: James Frields DecreybA 8021

482 Geologic Surveying (3) nonne O blero O mis do non Prerequsites: Geological Sciences 303B, 360 and trigonometry. Applications of land surveying to the solution of geologic problems. (1 hour lecture, 6 hours field work) Bachelor of Arts in Machematics

493 Directed Studies (1-4) The meaning and an army study of the studies (1-4) The meaning and the studies of th

Prerequisites: upper-division standing and consent of instructor. Directed studies in specialized areas of the geological sciences, such as petroleum geology, sedimentology, optical and instrumentation techniques. Library research and written reports required. May be repeated once with different topic.

Master of Arts in Muthernatics

495 Geological Sciences Internship (3)

Prerequisite: junior or senior standing in geological sciences. Geological sciences work experience, salaried or volunteer, with industry, government or private agencies. Student intern will be supervised by faculty adviser and employer. (1 hour of seminar plus a total of 120-150 hours of work experience) Russell Benson, Joseph Bucumo, Olona Cist Clapp, Paul De Land, Harnet Edwards, Russ

496L Geological Sciences Tutorial (2)

Prerequisite: 20 units in geological sciences. Supervised experience in geological sciences teaching through tutoring or assisting in laboratory or field classes.

498 Senior Thesis (1-2) Istal Istal astored also bendloc

Prerequisite: senior standing in geological sciences. Developed as an extension of an advanced course, conducted independently by the student under faculty supervision, culminating in a paper of professional quality. Two units maximum credit permitted.

499L Independent Study (1-3)

Independent study of a topic selected in consultation with and completed under the supervision of the instructor. May be repeated for credit. The student planning graduate study in a student planning graduate study in a student planning graduate study in a student planning graduate student graduate stu

506 Topics in Geochemistry (3)

Prerequisite: Geological Sciences 303B; Chemistry 120B; consent of instructor. Special topics in geochemistry with emphasis on current investigations, specifically including isotope, organic, and containment. May be repeated for credit with different topic.

Department of Mathematics

Department Chair: James Friel Vice Chair: Gerald Gannon

Department Office: McCarthy Hall 154

Programs Offered

Bachelor of Arts in Mathematics

Pure Mathematics Concentration Applied Mathematics Concentration Probability and Statistics Concentration Teaching Mathematics Concentration

Minor in Mathematics

Minor in Mathematics for Teacher Education

Master of Arts in Mathematics

Teaching Option (C) gottemant was the legislator 2 204 Applied Mathematics Option

Waiver Program for the Single Subject Credential

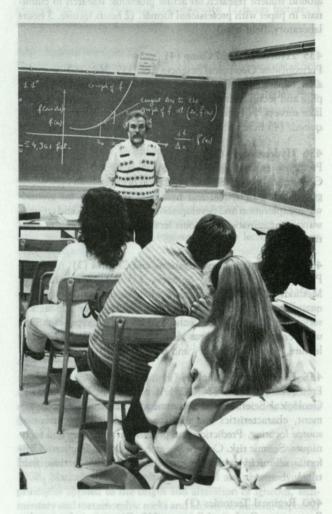
Faculty

Russell Benson, Joseph Bucuzzo, Gloria Castellanos, Michael Clapp, Paul De Land, Harriet Edwards, Russell Egbert, James Friel, Gerald Gannon, William Gearhart, Richard Gilbert, Stephen Goode, Theodore Hromadka, Darryl Katz, Vuryl Klassen, Vyron Klassen, William Leonard, Gerald Marley, Mario Martelli, John Mathews, Karen Messer, Ronald Miller, David Pagni, John Pierce, Steven Roman, Harris Shultz, Ernie Solheid, Gisela Spieler, Edsel Stiel, Lawrence Weill, Yun-Cheng Zee

INTRODUCTION

The Department of Mathematics offers a standard undergraduate major program in mathematics with options in applied mathematics, probability and statistics, and for prospective elementary or secondary teachers. Courses are provided to satisfy the Independent study of a topic selected in consultation : to sbeen completed under the supervision of the instructor. May be see

- 1. The student planning graduate study in mathematics;
- 2. The student planning to use mathematics in a career in business, industry or government;
- 3. The student planning to teach at the elementary or secondary and containment. May be repeated for andit with differ; level
- 4. The student majoring in a discipline using mathematics as a descriptive or analytic tool.



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tion, characterization, and distribution of metallic and nonme-

tallic mineral deposits. (2 hours locture: 3 hours laborators; field

423 Advanced Sedimentology and Strangraphy (3)

The major program is designed to give sufficient breadth and depth in the study of mathematics to prepare students for subsequent graduate study in mathematics or related areas. The applied and the probability and statistics options provide the mathematics needed for certain careers in industry and government. For students interested in teaching in elementary or secondary schools, the teaching option may be combined with programs leading to a teaching credential to meet both university degree requirements and California credential law.

Credential Information

The waiver program for the single subject credential has been approved by the State of California for the Department of Mathematics. In addition to the courses in the teaching option, Computer Sci 131 or 231 is required.

BACHELOR OF ARTS IN MATHEMATICS

In addition to the units in mathematics required in each program, all students seeking a B.A. in Mathematics must complete one of: Engineering 205 Digital Computation, Computer Science 112 Introduction to Computer Science, Computer Science 121 Programming Concepts, or Computer Science 123 Programming Concepts Review. This requirement should be completed within the first two years. Each student is also required to select one of five cognates from the disciplines of computer science, economics, management science, philosophy or physics/engineering. Those students selecting the computer science cognate are required to take Computer Science 121 or 123. Each course required for the major must be completed with a grade of C or better. Courses required for the major may not be taken on a credit/no credit basis and are not subject to challenge examinations.

Mathematics majors should take the lower-division mathematics courses (150A, B, 250A, B) during their first two years. Advanced calculus (350A) should be completed before the senior year. Mathematics 150A may be used to satisfy general education.

The requirements for the Bachelor of Arts in Mathematics consists of a total of 43 units in mathematics plus an additional 9-12 units in a cognate area of interest. The 43 units of mathematics is divided into a 28 unit core requirement which must be completed by all majors and an additional 15 unit requirement which is to be used to complete one of four possible concentrations; i.e., Pure Mathematics, Applied Mathematics, Probability and Statistics or Teaching Mathematics. The requirements for the B.A. in Mathematics are as follows:

Core Requirements (28 units)

All students are to complete the following 28 units:

Units the following requirements a grade room
150A,B Analytic Geometry and Calculus 8
250A,B Intermediate Calculus 8
307 Linear Algebra 3
335 Mathematical Probability
350A Advanced Calculus
370 Mathematical Model Building3
Total

Additional Requirements (15 units)

Each student is required to complete one of the following four sets of requirements:

Sognatos (9-12 units)

as a pas deterby a local inclusional firm. Ask chases now achievaded in
Pure Mathematics Concentration Units
302 Modern Algebra
350B Advanced Calculus 3
412 Complex Analysis
407 Abstract Algebra,
or 455 Real Analysis 3
414 Topology, works to select the selection of the select
or 417 Foundation of Geometry,
or 425 Differential Geometry
Total
Economics 210 Principles of Economics (5)
Applied Mathematics Concentration Units
306 Applied Analysis I
310 Ordinary Differential Equations 3
340 Numerical Analysis 3
Premignioner is story received the Aktimur Phanning analytic process.
One course each from two of the following
groups 6
of an Making Sci 422 (Surveys had Samping Department of the
a. 406 Applied Analysis II
b. 435 Mathematical Statistics,
or 438 Stochastic Processes
c. 440 Numerical Solutions of Partial Differential Equations,
or 445 Advanced Numerical Analysis
d. 425 Differential Geometry,
or 470 Advanced Mathematical Model
Building
SERVICE OF THE PROPERTY OF THE SERVICE OF THE PROPERTY OF THE
Total
Probability and Statistics Concentration Units
338 Statistics Applied to Natural Sciences 3
340 Numerical Analysis 3
371 Introduction to Combinatorics
435 Mathematical Statistics
438 Introduction to Stochastic Processes 3
Total
extension 22584 efficients in a Magnetian Lab force
Teaching Mathematics Concentration Units
302 Modern Algebra 3
401 Algebra and Probability for the
Secondary Teacher
402 Logic and Geometry for the
Secondary Teacher
414 Topology
or 417 Foundations of Geometry
435 Mathematical Statistics
or 438 Introduction to Stochastic Processes,
or 470 Advanced Mathematical Model Building . 3
Total

Cognates (9-12 units)

Each student is required to complete one of the following five sets of cognate requirements:

Computer Science (9 units)

Comp Sci 131 Data Structures Concepts (3)

Comp Sci 231 File System Concepts (3)

Comp Sci 245 Computer Logic and Architecture (3)

Economics (11-12 units)

Economics 201 Principles of Microeconomics (3)

and

Economics 202 Principles of Macroeconomics (3)

or

Economics 210 Principles of Economics (5)

then

Economics 440 Econometrics (3)

Economics 441 Mathematical Economics (3)

Management Science (9 units)

Three courses from the following:

Manag Sci 420 Applied Statistical Forecasting (3)

Manag Sci 422 Surveys and Sampling Design and

Applications (3)

Manag Sci 448 Computer Simulation in Business and

Economics (3)

Manag Sci 467 Statistical Quality Control (3)

Philosophy (9 units)

Math 368 Symbolic Logic, 1st course* (3)

Math 369 Symbolic Logic, 2nd course* (3)

and one of

Philosophy 380 Analytic Philosophy (3)

or Philosophy 384 Philosophy of the Physical

Sciences (3)

Physics/Engineering (11 units)

Physics 225A Mechanics (3)

Physics 225AL Mechanics Lab (1)

Physics 225B Electricity and Magnetism (3)

Physics 225BL Electricity and Magnetism Lab (1)

Physics 225C Modern Physics (3)

or Engineering 201 Statics (3)

Internships in Mathematics

Internships in applied mathematics provide work experience in advanced mathematics through positions in business, industry or government.

Writing Requirement

Math 380 will satisfy the university's upper-division writing requirement for mathematics majors.

MINOR IN MATHEMATICS

A mathematics minor shall consist of 25 units of course work which shall include Math 150A,B, 250A,B and at least nine units of upper division mathematics, exclusive of Math 303A,B, 380, 401, 402, 495, 496 and 499. All courses must be completed with a grade of C or better.

MINOR IN MATHEMATICS FOR TEACHER EDUCATION

- A. For elementary education the minor consists of 20 units of course work selected from the courses offered by the Department of Mathematics. The courses must include Mathematics 150B or 338, and Mathematics 303A,B. All courses must be completed with a grade of C or better.
- B. For secondary education the minor consists of 22 units of course work selected from the courses offered by the Department of Mathematics. The courses must include Mathematics 250B and six units of upper-division courses in mathematics. All courses must be completed with a grade of C or better.

Required Course Work for Teaching Credentials

Candidates for the single subject credential must complete the following courses: Mathematics 401 and 402 and Mathematics Education 442 and 449 E.I.S.

MASTER OF ARTS IN MATHEMATICS

The M.A. in Mathematics is designed to provide advanced study for students interested in continuing studies for a Ph.D. in mathematics or mathematics education, high school and community college teaching or mathematical analysis in industry.

Prerequisites

An applicant must meet the university requirements for admission in conditionally classified graduate standing: a baccalaureate from an accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted (see section of this catalog on Graduate Admissions for complete statement and procedures). In addition, students must have an undergraduate major in mathematics or a combination of previous course work and work experience approved as equivalent by the graduate committee of the Mathematics Department.

Applicants who meet the requirements for conditionally classified graduate standing may be granted classified graduate standing upon meeting the following requirements: a grade-point average of at least 3.0 in all upper-division mathematics courses; the completion of undergraduate courses equivalent to one semester each of linear algebra, modern algebra and advanced calculus; the development of a study plan approved by an adviser and the graduate committee; and completion of the University Writing Requirement. Students with subject or grade deficiencies who have been admitted to conditionally classified standing must

^{*} Same as Philosophy 368/369.

complete all courses required by the graduate committee with at least a 3.0 average before they will be classified. In addition, students in the teaching option should have completed a minimum of one year of full-time teaching in junior high or senior high mathematics.

Regular Program

For this program a plan of study leading to a Master of Arts in Mathematics may be designed to provide advanced work in mathematics. A personalized study plan to meet the objectives of each student may be developed within the general framework of the degree requirements.

The program requires a study plan with a minimum of 30 units of courses, planned by the student and the student's adviser, and approved by the graduate committee of the Mathematics Department. At least 16 of these units must be 500-level mathematics courses. No 300-level course work is applicable to the master's degree. Each three unit 500-level course must be accompanied by one unit of Mathematics 599 Independent Graduate Research. These 500-level courses should not come from any single area of mathematics. In addition, at least two from the following must be completed: Mathematics 407 Abstract Algebra, Mathematics 412 Complex Analysis, Mathematics 414 Topology, Mathematics 417 Foundations of Geometry, Mathematics 425 Differential Geometry, Mathematics 455 Real Analysis. Students will also be required to pass a set of four comprehensive exams or complete a 306 Applied Analysis I (3) Prerequisite: Mathemarics 2366 4 ects six-unit project.

Teaching Option

This option, designed for mathematics teachers, requires 30 units of graduate study approved by the graduate committee. At least sixteen of these units must be 500-level mathematics courses. The following course work must be included: Mathematics 581 Geometry for Teachers, Mathematics 582 Algebra for Teachers, Mathematics 584 Analysis for Teachers, Mathematics 585 Mathematical Computation for Teachers, Mathematics 587 Problem Solving for Teachers, and from three to six units of Mathematics 599. Each student will be required to take electives to ensure competence in algebra, geometry and analysis and pass a set of four comprehensive exams.

Applied Mathematics Option

For those interested in applied mathematics, the Department of Mathematics, offers the following courses in applied mathematics: Mathematics 489A, B Applicable Analysis and Linear Analysis; Mathematics 501A, B Numerical Analysis and Computation, Mathematics 502A, B Probability and Statistics, Mathematics 503A, B Optimization by Vector Space Methods, Mathematics 504A,B Modeling and Simulation. These courses were developed in consultation with mathematicians and scientists in the local industrial community and are specifically intended for individuals who are seeking positions, or who currently hold positions, which involve mathematics or quantitative applications. The subject matter emphasizes modern practical applied mathematics, modeling, problem solving and computation. The culminating experience is a project in which students have the opportunity of working in teams on a real problem, contracted and paid for by a local industrial firm. All classes are scheduled in the evening and can be taken in sequence in two calendar years, summers included.

Additional Information

A limited number of part-time instructor and research assistantships are available for selected graduate students. For more information, contact the Department of Mathematics.

Mathematics Courses

110 Mathematics for Liberal Arts Students (3)

Prerequisites: passing score on the ELM or exemption; three years of high school mathematics, including two years of algebra and one year of geometry. Survey of traditional and contemporary topics in mathematics, such as elementary logic, counting techniques, probability, graph theory, codes and coding, and the mathematics of the social sciences. For non-science majors. (CAN MATH 2)

115 College Algebra (4)

Prerequisites: passing score on the ELM or exemption; three years of high school mathematics, including two years of algebra and one year of geometry, and a passing score on qualifying exam. For students planning to take Mathematics 120 or Mathematics 130/ 135. Review of basic algebraic topics and treatment of functions, polynomials, logarithms, systems of equations and matrices. Credit given for either Mathematics 115 or Mathematics 125, but not both.

120 Introduction to Probability and Statistics (3)

Prerequisites: passing score on the ELM or exemption; three years of high school mathematics, including two years of algebra and one year of geometry. Set algebra, finite probability models, sampling, binomial trials, conditional probability and expectation. Recommended for students of economics, business, the biological, geological and social sciences.

125 Precalculus (4)

Prerequisites: passing score on the ELM or exemption; three years of high school mathematics, including two years of algebra and one year of geometry, and a passing score on qualifying exam. For students planning to take Mathematics 150A. Functional approach to polynomial, rational, exponential, logarithmic and trigonometric concepts; conic sections and induction. Credit given for either Mathematics 115 or Mathematics 125, but not

130 A Short Course in Calculus (4)

Prerequisites: passing score on the ELM or exemption; three years of high school mathematics, including two years of algebra and one year of geometry, and a passing score on the Mathematics Qualifying Exam (MQE). Differential and integral calculus. For students of business, economics, the biological, and social sciences. No graduation credit if taken after successfully completing Math 150A. No graduation credit for both Mathematics 130 and 135.

135 Business Calculus (3)

Prerequisites: passing score on the ELM or exemption; three years of high school mathematics, including two years of algebra and one year of geometry, and a passing score on the Mathematics Qualifying Exam (MQE). Elements of differential and integral calculus and their applications; including derivatives, integrals and max-min problems. Designed for students of business. No graduation credit if taken after successfully completing Mathematics 150A. No graduation credit for both Mathematics 130 and 135.

150A,B Analytic Geometry and Calculus (4,4)

Prerequisites: passing score on the ELM or exemption; four years of high school mathematics, including trigonometry, and a passing score on the Mathematics Qualifying Exam (MQE). Math 150A is the only prerequisite for Math 150B. Analytic geometry, functions, limits, differentiation, the definite integral, techniques of integration, applications, infinite series, Taylor's theorem. At most 6 units of credit are given for Mathematics 130 and 150A or Mathematics 135 and 150A. (150A = CAN MATH 18, 150B = CAN MATH 20)

196 Student-to-Student Tutorials (1-3)

Consult "student-to-student tutorials" in this catalog for more complete course description. May be taken CR/NC only.

250A Intermediate Calculus (4)

Prerequisites: Mathematics 150A, B or equivalent. A continuation of Math 150. Functions of several variables, partial differentiation, multiple integration, linear differential equations. (CAN MATH 22)

250AL Intermediate Calculus: Computer Laboratory (1)

Corequisite: Mathematics 250A. Use of computer software to solve calculus problems. (3 hours laboratory)

250B Introduction to Linear Algebra and Differential Equations (4)

Prerequisites: Math 250A. An introduction to the solutions of ordinary differential equations and their relationship to linear algebra. Topics include matrix algebra, systems of linear equations, vector spaces, linear independence, linear transformations and eigenvalues.

270A Mathematical Structures I (3)

Prerequisite: Mathematics 150B. First of two semesters of fundamental discrete mathematical concepts and techniques needed in computer-related disciplines. Logic, truth tables, elementary set theory, proof techniques, combinatorics.

270B Mathematical Structures II (3)

Prerequisite: Mathematics 270A. Second of two semesters of fundamental discrete mathematical concepts and techniques needed in computer-related disciplines. Graph theory, Boolean algebra, algebraic structures, linear algebra.

302 Modern Algebra (3)

Prerequisite: Mathematics 250B. The integers, rational numbers, real and complex numbers, polynomial domains, introduction to groups, rings, integral domains and fields.

303A,B Fundamental Concepts of Elementary Mathematics (3,3)

Prerequisite: Completion of a mathematics course that satisfies the General Education requirement. Grade of C or better in Mathematics 303A is prerequisite for Math 303B. Structure and form of the mathematics that constitutes the core of the K-8 mathematics curriculum, including the real number system, number theory and equations.

306 Applied Analysis I (3)

Prerequisite: Mathematics 250B. Vector analysis, including Green's, Gauss' and Stokes' theorems. Introduction to complex analysis applications.

307 Linear Algebra (3)

Prerequisite: Mathematics 250B. Introduction to the theory of vector spaces. Linear equations and matrices, determinants, linear transformations and eigenvalues, norms and inner products.

310 Ordinary Differential Equations (3)

Prerequisite: Mathematics 250B. Theory and methods of solutions for ordinary differential equations, including Laplace transform methods and power series methods. Oscillation theory for second order linear differential equations and/or theory for systems of linear and nonlinear differential equations. interested in applied mathematics, the Department of

330 Number Theory (3)

Prerequisite: Mathematics 250B. Divisibility, congruences, prime number theory, Diophantine problems.

335 Mathematical Probability (3)

Prerequisite: Mathematics 250A. Probability theory; discrete, continuous, and multivariate probability distributions, independence, conditional probability distribution, expectation, moment generating functions, functions of random variables, central limit theorem.

338 Statistics Applied to Natural Sciences (3)

Prerequisite: Mathematics 130 or 150B or consent of instructor. An introduction to the theory of statistics and statistical applications with an emphasis on data analysis techniques. Topics include elementary probability theory, estimation, hypothesis testing, correlation and regression, analysis of variance, and nonparametric tests.

340 Numerical Analysis (3)

Prerequisites: Mathematics 250B and one of the following: Engineering 205, Computer Science 112, 121, 123 or equivalent. Approximate numerical solutions of systems of linear and nonlinear equations, interpolation theory, numerical differentiation and integration, numerical solution of ordinary differential equations. Computer coding of numerical methods.

350A,B Advanced Calculus (3,3)

Prerequisite: Mathematics 250B. 350A is a prerequisite for 350B. Proofs in analysis. Continuity, differentiation and integration of functions of several variables, improper integrals, sequences and infinite series.

368 First Course in Symbolic Logic (3) (Same as Philosophy 368)

369 Second Course in Symbolic Logic (3)

(Same as Philosophy 369)

370 Mathematical Model Building (3)

Prerequisite: Mathematics 250B or consent of instructor and one of the following: Engineering 205, Computer Science 112, 121, 123 or equivalent. The theory of mathematical models and their applications in the biological, physical and social sciences. Discrete and continuous models.

371 Introduction to Combinatorics (3)

Prerequisites: Mathematics 250A or Mathematics 270B. Analysis of discrete structures and relations; proofs of existence and methods of enumeration. Permutations and combinations, and binomial coefficients, the inclusion-exclusion principle, recurrence relations, generating functions, systems of distinct representatives and the marriage theorem, and combinatorial designs. (Same as Computer Science 371)

380 History of Mathematics (3)

Prerequisite: Mathematics 250B. The history of mathematics through its methods and concepts. Designed to help the student become proficient in writing and reading mathematical literature. Satisfies the upper-division writing requirement for mathematics majors. Author theory when havening mi mon

401 Algebra and Probability for the Secondary Teacher (3)

Prerequisite: 12 units of upper-division mathematics. Overview of mathematical topics relevant to the teacher of secondary mathematics. Problem-solving approach to areas including algebra, number theory, combinatorics and probability while maintaining an historical perspective.

402 Logic and Geometry for the Secondary Teacher (3)

Prerequisite: 12 units of upper-division mathematics. A course parallel to Mathematics 401 but with emphasis on geometry, trigonometry and the theory of equations.

406 Applied Analysis II (3)

Prerequisite: Mathematics 306. Partial differential equations. Fourier analysis and integral transforms. Boundary-value problems for the potential, wave and diffusion equations. Sturm-Liouville theory. Applications.

407 Abstract Algebra (3)

Prerequisite: Mathematics 302. Sets, mappings, groups, rings, modules, fields, homomorphisms, advanced topics in vector spaces and theory of linear transformations, matrices, algebras, ideals, field theory, Galois theory.

412 Complex Analysis (3)

Prerequisite: Mathematics 350A. Complex differentiation and integration, Cauchy's theorem and integral formulas, maximum modulus theorem, harmonic functions, Laurent series, analytic continuation, entire and meromorphic functions, conformal transformations and special functions.

414 Topology (3) an admit actournent to inserior bas subustics

Prerequisite: Mathematics 350A. Topological spaces and continuous functions, connectedness and compactness, metric spaces and function spaces.

417 Foundations of Geometry (3)

Prerequisite: Mathematics 307. A study of the foundations of geometry through transformation and formal axiomatics. Isometrics, continuous projective and affine transformations. Convexity and metric spaces. An additional and a second and a second a s

425 Differential Geometry (3)

Prerequisite: Math 307. The differential geometry of curves and surfaces. Frenet-Seret formulas, the Gauss-Weingarten equations, the Gauss-Bonnet theorem.

435 Mathematical Statistics (3)

Prerequisite: Mathematics 335 or equivalent. Statistical theory and its applications, based on the use of calculus.

438 Introduction to Stochastic Processes (3)

Prerequisite: Mathematics 335. Stochastic processes including Markov chains, the Poisson Process, the Wiener Process. Applications to birth and death processes and queuing theory.

440 Numerical Solutions of Differential Equations (3)

Prerequisite: Mathematics 340. Numerical methods for initial and boundary-value problems for ordinary and partial differential equations, using finite difference methods. Error analysis. Computer coding of numerical methods.

445 Advanced Numerical Analysis (3)

Prerequisite: Mathematics 340. Numerical linear algebra topics including iterative methods for linear systems and approximation of eigenvalues and eigenvectors. Approximation theory, optimization, error analysis, computer coding of numerical methods.

455 Real Analysis (3)

Prerequisite: Mathematics 350B. Metric spaces, continuity, uniform convergence, lebesque measure and integration.

470 Advanced Mathematical Model Building (3)

Prerequisite: Mathematics 370. A continuation of Math 370. Discrete, continuous and stochastic models utilizing methods from applied mathematics. A project suitable to the student's background and interest may be required.

489A Applicable Linear Algebra (3)

Prerequisites: undergraduate calculus, linear algebra, advanced calculus and consent of instructor. Topics from linear algebra useful in graduate studies in mathematics, including finite and infinite dimensional vector spaces, linear transformations and matrices. Must be taken concurrently with Math 489B.

489B Applicable Analysis (3)

Prerequisites: undergraduate calculus, linear algebra, advanced calculus and consent of instructor. Topics from analysis useful in graduate studies in mathematics, including metric spaces, normed and inner product spaces and linear operators. Must be taken concurrently with Math 489A.

491 Career Options in Mathematics (1) to anotisbated \$14

Prerequisite: Upper division standing in Mathematics. Career options in mathematics. Credit/No Credit.

495 Internship in Applied Mathematics (1-3)

Prerequisites: 15 units of upper-division mathematics and consent of instructor. Work experience in advanced mathematics through positions in business, industry or government.

496 Student-to-Student Tutorials (1-3)

Consult "student-to-student tutorials" in this catalog for more complete course description. May be taken CR/NC only.

499 Independent Study (1-3)

Prerequisite: consent of instructor. Special topic in mathematics, selected in consultation with and completed under supervision of Prerequisite: Mathematics 335. Stochastic processes rotsurtani

501A Numerical Analysis and Computation I (3)

Prerequisites: Mathematics 489A, B or consent of instructor. Numerical methods for linear and nonlinear systems of equations, eigenvalue problems. Interpolation and approximation, numerical differentiation, integration and function evaluation. Error analysis, comparison, limitations of algorithms. Must be taken concurrently with Mathematics 501B.

501B Numerical Analysis and Computation II (3)

Prerequisites: Mathematics 489A, B or consent of instructor. Numerical methods for initial and boundary-value problems for ordinary and partial differential equations. The finite element method. Error analysis, comparison, limitations of algorithms. Must be taken concurrently with Mathematics 501A.

502A Probability and Statistics I (3)

Prerequisites: Mathematics 489A, B. Theory and applications of conditioning and random processes, with emphasis on modeling special discrete and continuous time processes.

502B Probability and Statistics II (3) opportunity and statistics II (3)

Prerequisites: Mathematics 489A, B and 502A. Mathematical theory and applications of renewal, queuing and reliability with advanced theoretical concepts in statistical estimation and topics from time series analysis. Preroquisite: Mathematics 250B: 350

503A Optimization by Vector Space Methods I (3)

Prerequisites: Mathematics 489A, B or consent of instructor. Mathematical principles of optimization with applications. Minimum norm problems in Banach and Hilbert space. Least squares and minimum mean square estimation. Recursive estimation and Kalman filtering. Duality. Adjoint, pseudoinverse projection operators. Must be taken concurrently with Math 503B.

503B Optimization by Vector Space Methods II (3)

Prerequisites: Mathematics 489A, B or consent of instructor. Local and global optimization of functionals; differentials, the calculus of variations. Constrained optimization; Lagrange multiplier methods, optimal control, the maximum principle and dynamic programming. Selected applications commonly found in industry. Must be taken concurrently with Math 503A.

504A Advanced Topics in Mathematical Modeling I (3)

Prerequisites: Mathematics 501A, B; 502A, B; 503A, B; and consent of instructor. Regular and singular pertubation theory, modeling of deterministic systems and random processes using ordinary and partial differential equations, Fourier methods, general modeling techniques including conditioning and sensitivity, dimensional analysis and scaling. Must be taken concurrently with Math 504B.

380 History of Mathematics (3)

504B Advanced Topics in Mathematical Modeling II (3)

Prerequisites: Mathematics 501A, B; 502A, B; 503A, B; and consent of instructor. Simulation techniques, application to sensivity analysis, phase plane techniques and stability, wave propagation in general media, potential theory. Must be taken concurrently with Math 504A.

512 Complex Analysis (3)

Prerequisites: Mathematics 412 and 350B. Analytic functions of several variables, special functions, conformal mapping and Riemann surfaces. raining an historical perspective.

581 Geometry for Teachers (3)

Prerequisites: Mathematics 307 or consent of instructor, graduate standing, plus one year of full-time teaching in secondary school mathematics. Topics relating to the high school curriculum from an advanced standpoint including the axiomatic method and non-Euclidean geometry.

582 Algebra for Teachers (3)

Prerequisites: Mathematics 302, or consent of instructor, graduate standing, plus one year of full-time teaching in secondary school mathematics. Topics relating to the high school curriculum from an advanced standpoint including algorithms, fields and polynomials.

584 Analysis for Teachers (3)

Prerequisites: Mathematics 350A or consent of instructor, graduate standing, plus one year of full-time teaching in secondary school mathematics. Topics relating to the high school curriculum from an advanced standpoint including limits, continuity, differentiation and integration.

585 Mathematical Computation for Teachers (3)

Prerequisites: Math 350A or consent of instructor, knowledge of computer programming, graduate standing and one year of fulltime teaching in secondary school mathematics. Selected mathematical topics that lend themselves to computer solution.

587 Problem Solving for Teachers (3)

Prerequisites: Math 302 or consent of instructor, graduate standing, plus one year of full-time teaching in secondary school mathematics. Problem solving via non-routine and enrichment-type problems from several branches of mathematics.

597 Project (3,6)

Prerequisite: consent of instructor.

599 Independent Graduate Research (4-6)

Prerequisite: graduate standing. One unit required for each regular graduate course. Also offered without being attached to any course. May be repeated for credit.

Mathematics Education Courses

442 Teaching Mathematics in Secondary School (3)

Prerequisite: admission to Teacher Education Program in Mathematics or consent of instructor. Objectives, methods, and materials including audiovisual instruction for teaching mathematics. Required before student teaching, of mathematics majors for the general single subject credential. (Offered fall semester only) (2 hours lecture, 2 hours activity)

449E Externship in Secondary Teaching (3)

See description under Department of Secondary Education. (Offered fall semester only)

449I Internship in Secondary Teaching (10)

See description under Department of Secondary Education. (Offered spring semester only)

concepts in industry, and in private and severement laborate 449S Seminar in Secondary Teaching (2)

See description under Department of Secondary Education. (Offered spring semester only)

499 Independent Study (1-3)

Prerequisite: consent of instructor. Special topic in mathematics education, selected in consultation with and completed under supervision of the instructor. May be repeated for credit.

Department of Physics

Department Chair: Mark Shapiro Department Office: McCarthy Hall 611

Programs Offered
Bachelor of Science in Physics
Minor in Physics

Faculty

Roger Dittmann-Djakovic, James Feagin, Fred Johnson, Murtadha Khakoo, Roger Nanes, Mark Shapiro, Louis Shen, Keith Wanser, Dorothy Woolum.

Adviser angle subject condendated for the senses single senses

All programs: Roger Nanes

Physics is the natural science that deals with the properties and interactions of matter and radiation. As such, physics provides the fundamental basis for all other sciences, and for applied science fields such as engineering and the health sciences. Many physicists engage in research designed to expand the frontiers of physical knowledge; others engage in the application of physics concepts in industry, and in private and government laboratories.

The physics major program can provide the education necessary for the student to continue studies at the graduate level that, in turn, lead to the master's and doctoral degrees. Alternatively, the physics major program can provide the education necessary for the student to work immediately upon graduation with the bachelor's degree, either in industry or government labs, in applied physics fields, or in teaching at the secondary school level.

Each student's study program is formalized in an approved study plan that provides the type of education that will best suit that student's needs upon graduation. The emphasis of the study plan is physical theory and mathematics for those planning on graduate school, while the emphasis is the more applied courses (such as physical electronics), including advanced laboratory work, for those planning to work in applied physics upon graduation.

The department's instrumentation and facilities include several real-time research computers with interfacing modules for instruction in modern automation and for automated faculty research projects. Students are encouraged to obtain research experience by assisting faculty in their ongoing research efforts. Physics 495, Internship in Physics, provides practical work experience that integrates classroom studies with the needs and methods of modern industrial science.



581 Geometry (bo-Touchense(3)) one sixelen A

BACHELOR OF SCIENCE IN PHYSICS COURSE REQUIREMENTS

COURSE REQUIREMENTS
Lower Division Units
General Chemistry (Chem 120A,B)
Mathematics (Math 150A, B and 250A)
Fundamental Physics (Physics 225A, B, C
and 225AL,BL,CL)
Total
Upper Division Units
Physics 310 Thermodynamics, Kinetic Theory
and Statistical Physics
Physics 320 Classical Mechanics 4
Physics 330 Electromagnetic Theory 4
Physics 340 Modern Physics 4
Physics 380 Methods of Experimental Physics 3
At least 12 additional upper-division units in physics and 6 units of general electives in applied mathematics, science or the equivalent: selected in consultation with the department's academic adviser and of the department chair. (The latter requirement will be waived for students completing a minor or second major in mathematics, in another science, in engineering, or in computer science.) 18 Total 36
Upper-Division Writing Requirement Units
English 301 Advanced College Writing or English 360 Scientific and Technical

Other Requirements

Each course in physics, mathematics, chemistry and English that is required for the major must be completed with grade of C or better. A site of the same of

Report Writing 3

Formal academic advisement is required for all physics majors at least once every academic year.

Each physics major must file a plan of study with the Physics Department prior to the student's enrollment in upper-division physics courses. This plan must be approved by the department chair.

MINOR IN PHYSICS

Lower Division	Units
Fundamental Physics (Physics 225A,B,C and 225AL,BL,CL)	12
Upper Division	

Upper-Division Experimental Physics 3 Additional upper-division units in physics, selected in consultation with the department academic adviser with approval by both the adviser and the department chair. . . . 6

TEACHING CREDENTIAL

To qualify for a waiver from the examination for a Single Subject Credential in Physical Science, the following courses are required in addition to those for the B.S. degree in Physics:

Chemistry 301A, B. (E) solved 9 vastremell #115 Geological Sci 101, 101L, and 201. Physics 200. Biological Sci 131, and 241 or 261.

Physics Courses

A grade of C or better is required in all prerequisite courses. Prerequisite requirements with exception of the grade requirement may be waived by the instructor of the course if the instructor is satisfied that the student is qualified to undertake the AL required. Classical Newtonian mechanics, linear a service

107 Nuclear Energy and Its Impact on Society (1)

Physics of nuclear technology. Its social costs, political economy, historical development.

115 Introductory Physics (4)

Prerequisites: High school algebra, geometry, and intermediate algebra. Development of problem solving skills in basic physics. For students with limited background in physics who plan to take additional physics courses. Does not fulfill physics requirements for majors or minors in the physical or biological sciences. (3 hours lecture, 1 hour recitation)

123 Perspectives of Man's Physical Universe (3)

Fundamental laws of nature. Topics of current interest such as lasers, space exploration, and energy. (For non-science majors.)

123L Perspectives of Man's Physical Universe Laboratory (1) Concurrent enrollment in Physics 123 required. Experiments that demonstrate important scientific methods. Quantitative experiments in energy, electricity, radioactivity and waves.

175 Applied Physics I (1)

Mathematics useful for solving elementary physics problems. Review of geometry, algebra, and trigonometry commonly used in Physics 211A and 225A.

200 Introduction to Astronomy (4)

High school algebra recommended. Celestial motion, the solar system, galactic structure, theories of the origin of the universe and the solar system, and evolution, leading to precursors of lifeforming molecules. (3 hours lecture, 1 hour of activity, field trips to planetariums and/or observatories and observing sessions).

211A Elementary Physics (3)

Corequisite: Mathematics 130 or 150A, Physics 211AL. An introduction to mechanics and thermodynamics. Designed for life and health science majors. (2 hours lecture, 1 hour recitation). (211A & 211AL: CAN PHYS 2)

211B Elementary Physics (3)

Prerequisite: 211A with a grade of C of better. Corequisite: Physics 211BL. An introduction to electricity and magnetism, wave motion and optics. Designed for life and health science majors. (2 hours lecture, 1 hour recitation). (211B & 211BL: CAN PHYS 4)

211AL, 211BL Elementary Physics: Laboratory (1,1)

Laboratory for 211A,B. Concurrent enrollment in the corresponding 211A,B lecture required. (3 hours laboratory). (Instructional materials fee required.) (211A & 211AL: CAN PHYS 2; 211B & 211BL: CAN PHYS 4)

225A Fundamental Physics: Mechanics (3)

Prerequisite: Mathematics 150A. Concurrent enrollment in 225AL required. Classical Newtonian mechanics; linear and circular motion; energy; linear/angular momentum; systems of particles; rigid body motion; wave motion and sound. (225A & 225AL: CAN PHYS 8)

225B Fundamental Physics: Electricity and Magnetism (3)

Prerequisite: Math 150B and Physics 225A or equivalent; concurrent enrollment in Physics 225BL required. Electrostatics, electric potential, capacitance, dielectrics, electrical circuits, resistance, emf, electromagnetic induction, magnetism and magnetic materials, and introduction to Maxwell's equations. (225B & 225BL: CAN PHYS 12)

225C Fundamental Physics: Waves, Optics, and Modern Physics (3)

Prerequisite: Physics 225B with a grade of C or better, or equivalent. Concurrent enrollment in Physics 225CL laboratory required. Geometrical and physical optics, wave phenomena; quantum physics, including the photoelectric effect, line spectra and the Bohr atom; the wave nature of matter, Schroedinger's equation and solutions; the Uncertainty Principle, special theory of relativity. (225C & 225CL: CAN PHYS 10)

225AL,BL,CL Fundamental Physics: Laboratory (1,1,1)

Laboratory for Physics 225A,B,C. Concurrent enrollment in the corresponding 225A,B,C lecture required (3 hours laboratory). (Instructional materials fee required.) (225A & 225AL: CAN PHYS 8; 225B & 225BL: CAN PHYS 12; 225C & 225CL: CAN PHYS 10)

305 Acoustics (4)

Prerequisite: Mathematics 110. Fundamentals of sound production, propagation, and measurement. Musical instruments, physiology of the ear, hearing impairment, noise pollution, auditorium design, sound synthesizers and analyzers. (3 hours lecture, 3 hours lab). Not applicable to physics majors.

310 Thermodynamics, Kinetic Theory, and Statistical Physics (3)

Prerequisite: Physics 225C with a grade of C or better. Laws of thermodynamics with physical, chemical and engineering applications; kinetic theory of gases. Introduction to statistical physics with reexamination of laws of thermodynamics.

315 Computational Physics (3)

Prerequisite: Physics 225C; previous computing experience recommended. Basic numerical methods in physics. Applications include curve fitting and minimization, numerical simulation of classical particles, waves and Fourier analysis, quantum square well, Monte Carlo methods and diffusion. Hands-on computing with high-level languages, graphics and symbolic mathematics. (1 hour lecture, 4 hours activity)

320 Classical Mechanics (4)

Prerequisites: Physics 225C and Math 250A. Classical mechanics and associated mathematical and numerical techniques: Newtonian dynamics; Lagrangian and Hamiltonian dynamics.

330 Electromagnetic Theory (4)

Prerequisites: Physics 225C, Math 250A. Applications of vector calculus and Maxwell's equations to the propagation of EM waves in dielectrics, plasmas, and conductors. Selected topics in radiation, diffraction, and eigenfunction expansions of static and waveguide fields.

340 Modern Physics (4)

Prerequisites: Physics 225C and Math 250A. A survey of modern physical theories, their experimental foundations and applications: special relativity; quantum physics of atoms, molecules, and nuclei; introduction to solid state physics.

380 Methods of Experimental Physics (3)

Prerequisite: Physics 225B. Experiments using analog, digital, and integrated circuits including: filtering circuits, diodes, transistor amplifiers, operational amplifiers, triggers, and digital logic. Introduction to automated experimentation. (1 hour lecture, 6 hours laboratory). (Instructional materials fee required.)

384 Philosophy of the Physical Sciences (3) (Same as Philosophy 384)

410 Introduction to Mathematical Physics (3)

Prerequisite: Physics 225C and Mathematics 250A. The ordinary and partial differential equations of physics. Vector calculus, linear algebra, calculus of variations, Fourier series and integral transforms. Problems in physics.

411 Modern Optics (3)

Prerequisites: Physics 225A,B,C; Mathematics 250A. Wave propagation, Fourier optics, introduction to spatial filtering and image enhancement, lasers, analytical ray tracing, matrix methods in optics.

414 Physics of the Solar System (3)

Prerequisites: Mathematics 250A, and Physics 225A, B, C; Physics 310 recommended. Solar system physics, including physical principles underlying current experiments in planetary science and space physics. Solar physics; planetary dynamics; experimental probes of planetary surfaces, interiors and atmospheres; physical constraints on theories of the solar system origin.

416 Thermal and Statistical Physics (3)

Prerequisites: Physics 225A, B, C and Mathematics 250A. The disciplines of thermodynamics, statistical mechanics and kinetic theory (and their applications); their unifying microscopic foundation.

454 Introduction to the Solid State of Matter (3)

Prerequisite: Physics 340; differential equations. The physical properties of matter in the solid state, as explained by atomic theory. Crystal structure, thermal, electric and magnetic properties of metals, semiconductors, band theory and solid state devices.

455 Introduction to Quantum Physics (3)

Prerequisite: Physics 320; differential equations. The concepts and theory of quantum physics. Early quantum theories, the Schroedinger equation, eigenvalue equations, operators, commutation properties, applications to simple quantum systems, angular momentum.

460 Advanced Topics in Contemporary Physics (3)

Prerequisite: Upper-division standing in physics and consent of instructor and department chair. An advanced lecture course covering a field of physics of current interest not covered in other courses, such as plasma physics, superconductivity, solid state devices, fiber optics and photonics, astrophysics, subatomic physics. May be repeated for credit with a different topic.

465 Gravitation (3)

Prerequisites: Physics 225A, B, C and Mathematics 250A, B. Introduction to differential geometry and tensor analysis needed to understand Einstein's General Theory of Relativity. Applications of general relativity to stars, gravitational collapse, black holes, gravitational waves, cosmology. Experimental tests/alternate theories of gravity.

471 Electronic Circuit Theory (3)

Prerequisites: Physics 225A, B, C and Mathematics 250A. Operating characteristics of transistors and semiconductor diodes. Linear circuit theory for alternating currents and for transient currents. Switching and pulse circuits. Digital electronics.

473 Basic Instrumentation Concepts (3)

Prerequisite: Physics 225B. Modern instrumentation theory, techniques, and practices in the physical sciences. A systematic approach to physical measurement from transducer to data presentation.

476 Atomic Structure (3)

Prerequisite: Physics 455. Theory of atomic structure, interaction of radiation with matter and perturbation theory. Angular momentum and coupling schemes.

481 Experimental Physics (2)

Prerequisites: Physics 225C, Physics 380 recommended. Automated experimentation and data processing techniques for experimental and applied physicists planning automated experiments, programming of microprocessors and peripheral control ICs, circuits for interfacing computer modules and experimental apparatus. (6 hours laboratory).

482 Modern Optics Laboratory (2)

Prerequisites: Physics 225C, Physics 411 recommended. Experiments in optics, including: spatial filtering, image enhancement, atomic spectroscopy, interferometry, holography, single photon counting, and photographic techniques. (6 hours laboratory). Instructional materials fee required.

495 Internship (1-3)

Prerequisites: upper-division standing in physics and consent of the chair. Professional physics work in industry or government, to provide an in-depth experience. Written report is required. May be repeated once for credit.

496 Student-to-Student Tutorials (1-3)

Prerequisite: upper-division standing and consent of chair. Students learn through teaching, increase mastery of subject matter, develop awareness of teaching problems and competence in teaching techniques. Consult "Student-to-Student Tutorials" in this catalog for more complete course description.

499 Independent Study (1-3)

Prerequisite: approval of study plan by department chair and instructor. Topic in physics, selected in consultation with and completed under the supervision of the instructor. May be repeated for credit to a maximum of six units.

598 Thesis (1-6)

Planning, preparation and completion of an acceptable thesis in partial fulfillment of the requirements for the master's degree. Credit to be obtained only upon formal submission of thesis.

599 Independent Graduate Research (1-3)

Prerequisite: written approval of study plan by department committee and by instructor. Open only to graduate students and only with consent of a faculty member. May be repeated for

Science Education Program

Program Coordinator: H. Eric Streitberger Program Office: McCarthy Hall 580

Program Offered

Master of Arts in Teaching Science

Faculty

Gaylen Carlson, H. Eric Streitberger, Barry Thomas

Advisers to see a second delication and the second delication and the

MAT-S: Gaylen Carlson
Secondary Teaching Certification: Gaylen Carlson, H. Eric Streitberger, Barry Thomas

apparatus. (6 nours laboratury).

Introduction

Science Education is a specialized area of learning and instruction related to the pre-service and in-service education of science teachers.

The Science Education Program prepares students to teach science at the elementary and secondary levels; provides guidance for experienced teachers in the study and use of educational practices developed for the teaching of sciences; and helps teachers develop original ideas in their areas of specialization.

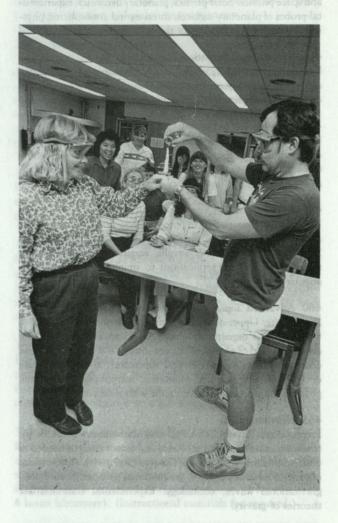
The offerings of this program include basic professional training courses required for teaching-certification in the physical and life sciences, advanced course work in science education, and certain academic content offerings designed especially for teacher preparation.

The program teaches scientific content, scientific processes and curriculum for prospective and practicing elementary teachers. These courses are in the physical sciences and the biological sciences.

The program offers courses for prospective and practicing secondary teachers in the methods of teaching science and in the processes of science and is responsible for the supervision of teachers in student teaching assignments. The courses and experiences provide prospective secondary teachers with the skills necessary to teach the scientific content of their particular science certification.

Requirements for Teaching Credentials

The following courses offered by the Science Education Program are required of candidates for teaching credentials in science.



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Single Subject Credential Candidates — Life Sciences and **Physical Sciences**

Science Ed 312 Processes of Science (3)

Science Ed 442 Teaching Science in the Secondary School (3)

Science Ed 449E Extern in Secondary Teaching (3)

Science Ed 449I Intern in Secondary Teaching (10)

Science Ed 449S Seminar in Secondary Teaching (2)

The student should take Science Ed 442 concurrently with Science Ed 449E (5 weeks of student teaching at the end of the semester). Science Ed 449I (full-time student teaching) and Science Ed 449S are taken concurrently in the following semester. Science Ed 312 is a prerequisite for Science Ed 449I and must be included in the student's study plan. It can be taken concurrently with 449I with consent of the instructor.

Courses Approved for the Child Development and the Liberal Studies Waiver Programs

Selections from the following courses may be used to meet degree requirements for the Child Development major or the liberal studies major:

Science Ed 310 Physical Science Concepts (3)

Science Ed 453 Life Science Concepts (3)

In recognition of the need for education in nature interpretation and conservation, the Science Education Program offers course work and internships in these disciplines. Much of this course work takes place at the Tucker Wildlife Sanctuary in the Santa Ana Mountains.

MASTER OF ARTS IN TEACHING SCIENCE

The primary objectives of the Master of Arts in Teaching -Science are to provide advanced course work in science curriculum designs appropriate to the professional responsibilities of science educators; to provide research and seminar opportunities in contemporary issues in science education; and to enable teachers to become more proficient in science disciplines appropriate to their academic teaching assignments.

Additional course work is selected from the departments of Biological Science, Chemistry and Biochemistry, Computer Science, Geological Sciences or Physics. The graduate work culminates with the student completing a project or thesis in an area of science education which is applicable to the student's teaching. Faculty from the program and other departments form the committee which guides and evaluates each graduate student.

Admission to Graduate Standing: Conditionally Classified

University requirements include a baccalaureate from an accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted. For this program the baccalaureate must be in one of the sciences (biology, chemistry, geological sciences, physics) and/or related fields.

Graduate Standing: Classified

A student who meets the requirements for conditionally classified graduate standing, as well as the following requirements, may be granted classified standing upon the development of an approved study plan. Candidates:

- 1. must be science instructors or curriculum coordinators/ supervisors as evidenced by an appropriate credential certifying that they may teach in one of the science disciplines below the collegiate level; the language to not sigmon estimated and
- 2. must declare an area of teaching specialization (the graduate committee for all candidates will include instructors from the academic departments of the student's teaching specialty or emphasis);
- 3. may be asked to take a diagnostic examination prior to classification in the declared areas of teaching specialty (the purpose of this examination is to aid advisers in recommending appropriate science course work, if areas of weakness are apparent. Course work as designated by coadvisers will be required prior to taking more advanced course work. Such course work will not count toward the 30-unit degree requirement):
- 4. must have adequate science preparation; and
- 5. must have a minimum grade-point average of 2.5 in science prerequisites.

Study Plan

The degree program consists of 30 units of upper-division or graduate course work within the School of Natural Science and Mathematics, of which at least half must be 500-level, and which must be completed with a grade-point average of 3.0 or better.

- 1. 15 units will be in the sciences, in upper-division and graduate courses. At least nine units will be taken in one of the following: biology, chemistry, computer science, geological sciences or physics.
- 2. 15 units will be in science education with the following requirements: 20 25 ground langulard to the notice of to the short cesses appropriate for elementary deschers. liserto

Core courses

550 Theoretical Designs in Science Education (3)

552 Review of Research in Science Education (3)

(This course meets the Graduate Level Writing Requirement.)

554 Issues in Science Education (3)

Culminating Experience

598 Thesis (6)

or 597 Project (3)

and 599 Independent Graduate Research (3)

For further information and advisement, consult the graduate program adviser or coordinator of the Science Education Program.

Science Education Courses

310 Physical Science Concepts (3)

Prerequisite: completion of general education natural science requirements or consent of instructor. For prospective elementary school teachers. Observing, classifying, recognizing spacetime relations, measuring, inferring, formulating hypotheses, controlling variables and interpreting data. Instructional fee required. (2 hours lecture, 2 hours activity)

312 Processes of Science (3)

Prerequisites: 15 units of science coursework including biological and physical sciences. Methodologies, logical procedures and explanatory systems that characterize the various natural sciences. The role of the science educator. (2 hours lecture, 1 hour activity, 1 hour TBA)

442 Teaching Science in the Secondary School (3)

Prerequisite: appropriate education and science education course work for credential. Objectives, methods, and materials including audiovisual instruction for teaching science. Required before student teaching for candidates for the single subject teaching credential in either the life sciences or the physical sciences. (2 hours lecture, 2 hours activity)

449E Externship in Secondary Teaching (3)

(See description under Secondary Education)

449I Internship in Secondary Teaching (10)

Prerequisite: Science Education 312 (may be taken concurrently) (See description under Secondary Education)

449S Seminar in Secondary Teaching (2)

(See description under Secondary Education)

453 Life Science Concepts (3)

Prerequisite: completion of general education requirements or consent of instructor. Biological principles using science processes appropriate for elementary teachers. Instructional fee required. (2 hours lecture, 2 hours activity)

495A,B Naturalist Internship (3,3)

Prerequisite: consent of instructor. Supervised in-service training at the Tucker Wildlife Sanctuary. For the prospective biological science teacher, communications major and others interested.

499 Independent Study (1-3)

Special topics in science education, selected by consultation and completed under the supervision of the instructor. May be repeated for credit.

550 Theoretical Designs in Science Education (3)

Prerequisites: graduate standing. The designs, models, assumptions of national curriculum projects in science at the secondary level. The successes and failures of these projects. (3 hours lecture)

552 Review of Research in Science Education (3)

Prerequisites: graduate standing. A review of relevant literature requisite to individual research design and execution of appropriate experimental or observational procedures to test hypotheses concerning problems in science education. (3 hours lecture/discussion format; inquiry mode)

554 Issues in Science Education (3)

Prerequisite: graduate standing. Major contemporary issues in science education. (3 hours lecture)

597 Project (3)

Prerequisite: advancement to candidacy and an appointed thesis committee. The selection, investigation and written presentation of a project in science education. Concurrent enrollment in 599 (3 units) also is required.

598 Thesis (6)

Prerequisite: advancement to candidacy and an appointed thesis committee. The selection, investigation and written presentation of an experimental problem in science education.

599 Independent Graduate Research (1-2-3)

Graduate student research in a specific area of science education.

May be repeated for credit.

Admission to Graduate Standing: Conditionally Classified



Special Programs

Astronomy

Offered by the Department of Physics. See departmental descriptions for the following courses:

Physics

200 Introduction to Astronomy (4)

414 Physics of the Solar System (3)

Earth Science

See Department of Geological Sciences.

Geochemistry

Offered by the Department of Chemistry and Biochemistry and the Department of Geological Sciences as a Master of Science in Chemistry, Geochemistry Emphasis. See requirements under Chemistry, and departmental course descriptions.

Marine Sciences

Offered by the Department of Biological Science and the Department of Geological Sciences. See departmental course descriptions for the following courses:

Biological Science

319 Marine Biology (3)

319L Marine Biology Lab (1)

406 Biometry (4)

419 Marine Ecology (3)

419L Marine Ecology Lab (1)

446 Marine Phycology (4)

461 Invertebrate Zoology (4)

475 Ichthyology (4)

491 Advanced Topics in Ocean Studies (1-4)

491L Laboratory Topics in Ocean Studies (1-2)

Geological Sciences

333 Oceanography (3)

410 Special Topics in Geological Sciences, Marine Geology (2-3)

Paramedical

Offered by the Department of Biological Science and the Department of Chemistry and Biochemistry. See departmental course descriptions for the following courses:

Biological Science

- 323 Biology of Sexually Transmitted Diseases (STD) (2)
- 361 Human Anatomy (4)
- 362 Mammalian Physiology (4)
- 406 Biometry (4)
- 423 Pathogenic Bacteriology (4)
- 424 Immunology (4)
- 425 Pathobiology (4)
- 426 Virology (3)
- 428 Biology of Cancer (3)
- 462 Biomedical Parasitology (4)
- 468 Comparative Animal Physiology (4)
- 469 Hematology (4)
- 520 Seminar in Medical Technology (3)

Chemistry

- 421A,B Biological Chemistry (3,3)
- 422A,B General Biochemistry Laboratory (2,2)
- 430 Clinical Chemistry (4)

Meteorology

Offered by the Department of Geological Sciences and the Department of Geography. See departmental descriptions for the following courses:

Geological Sciences

- 140 Earth's Atmosphere (3)
- 340 General Meteorology (3),
- 410 Special Topics in Geological Sciences, Dynamic Physical Meteorology (2-3)

Geography

- 280g Analysis of Weather Maps (1)
- 323 Weather and Climate (3)
- 422 Regional Climatology (3)

Oceanography

Offered by the Department of Biological Science, the Department of Geological Sciences and the Department of Geography. See department descriptions for the following courses:

Biological Science

- 319 Marine Biology (3)
- 319L Marine Biology Laboratory (1)
- 419 Marine Ecology (3)
- 419L Marine Ecology Lab (1)
- 446 Marine Phycology (4)
- 475 Ichthyology (4)
- 491 Advanced Topics in Ocean Studies (1-4)
- 491L Laboratory Topics in Ocean Studies (1-2)

Geological Sciences

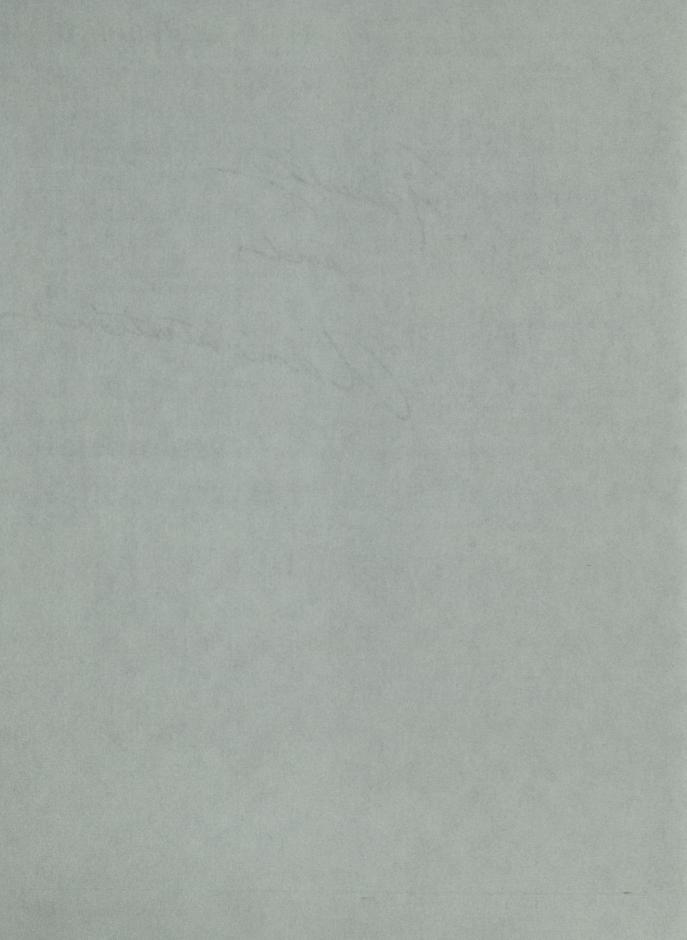
- 333 Oceanography (3)
- 410 Special Topics in Geological Sciences, Marine Geology (2-3)

Geography

426 The Coastal Environment (3)

Special Topics in Geological Sciences, Manne

faculty and and and Administration



Faculty and Administration

1990-91

(Year in parentheses indicates date of appointment as a fulltime member of the faculty or administration.)

GORDON, MILTON ANDREW (1990),

SO, TAKENORI (1973).

Associate Professor of Sociology

Associate Professor of Sociology

B.S., Iowa State University M.S., University of North a

Dekota: Ph.D., Weshington, State, University of Sizesonal

Professor of Foreign Languages and Literatures

B.A., M.A., Ph.D., University of California, Los Angeles

B.A., M.A., Ph.D., University of California, Los Angeles

Professor of Health, Physical Elucation and Recreation A.

Southern California: Ph.D., 78001) CARSTERNATED JENAE

BAXER, MARTHA J. (1975),
Professor of Music AT. A.M. restood to agallo O. A.B.

B.S., M.S., Ph.D., J.D., University of Wisconsinersying

BARATH, ROBERT M. (1974) TATLAW NAMACE

Professor of Elementary/Bilings al. Education and Children

University: Ph.D., Claremont Oradistre Schools mousty

University of Rochester (1983). MALLIW , MASS

ASO, TAKENORI (1973),

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ADAMS, PHILLIP A. (1963), ADAMS, PHILLIP A. (1963), ADAMS ADAMS AND ADAMS ADAM Professor of Biological Science B.S., University of California, Berkeley; M.A., Ph.D., Harvard University

ADLER, LOUISE C. (1988),

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ARISTIZABAL, J. DARIO (1987),

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ARMS, BARBARA (1980),

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BAKER, CHARLES A. (1975),

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B.M., M.M., D.M.A., Eastman School of Music, University of Rochester

BAKER, MARTHA J. (1975),

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BAKKEN, GORDON M. (1969),

Professor of History

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BARATH, ROBERT M. (1974),

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BEAM, WILLIAM C. (1983),

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Professor of Educational Administration; and Chair of the Department of Educational Administration B.A., Northern Illinois University; M.A., Northwestern University; Ph.D., Claremont Graduate School BEDELL, JOHN W. (1969), mollian marfund to visite vin U

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A.B., Franklin and Marshall College; M.A., Ph.D., Case Western Reserve University

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BELL, TONY (1968),

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BELLOLI, ROBERT C. (1968), A STATE OF THE PROPERTY OF THE PROP

Coordinator, Undergraduate Studies and Professor of Chemistry and Biochemistry

B.S., St. Louis University; Ph.D., University of California, Director of Admissions and Records

(September 1) A.B., Elimeten College: M.Ed., University College: M Berkeley

BELLOT, LELAND J. (1964), Sandad . C. La cosession T

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BENSON, NANCEE (1980),

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BERMAN, STEPHEN J. (1981), Lecturer in Communications (1) MAMBEON MOTEOR

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BITTER, JAMES (1987), Sales of Colored to toes for I

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BOTT, VIRGINIA B. (1976), To MIRROVINIA A.M. B. M. B.

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BREESE, LAUREN W. (1965),

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B.A., University of California, Berkeley; M.A., Ph.D., University of Chicago B.A., College of Wooster, M.A., Ph.D.,

BROWER, JONATHAN J. (1972), Seem Illing griensvin U

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Professor of Religious Studies

S.T.B., S.T.L., Marianum, Rome; Ph.D., Catholic University Das propagation A land saud To roselor

BROWN, MICHAEL E. (1967), It somily memory A. A.

Professor of Political Science Company of All Avalentinu

B.A., California State University, Long Beach; Ph.D., University of Southern California

Acting Associate Vice President BROWN, THOMAS LEE (1984), vgolosof do rozelos?

Professor of Marketing

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BROWNING, ROBERTA F. (1970), OCOAM YHOUAHO Director, Career Development Center B.A., Bucknell University; M.S., California State University, Fullerton California, Irvine

BRUCE, GRADY D. (1981), CHEM-MING-(1982) goal ness Professor of Marketing B.B.A., University of Texas; M.B.A., Ph.D., Louisiana State University View University Prize University 12.8. Ph. D., Colorador State Université Jarra air

BRUGALETTA, JOHN J. (1970), Professor of English and Comparative Literature B.A., M.A. Arizona State University; Ph.D., University of B.B.A. National Taiwari Confeculty Pt. P. M. TruosaiM.

BRUNELLE, GAYLE (1988), Assistant Professor of History TADIMONEY OMAINO B.A., Saint Michael's College; M.A., Ph.D., Emory B.A., Tankang College of Letters and Science, trisravinU

BUCK, CHARLES W. (1964), Associate Vice President for Student Affairs A DAILO B.A., Occidental College; M.A., University of Oregon; Ph.D., Columbia University and state amount A. A.

Cranbrook Academy of Art. M. wisseyin BUCK, J. VINCENT (1974), Professor of Political Science (1980) 3 OMUYN OHO B.A., University of California, Berkeley; M.A., Ph.D., Stanford University

BUCKLES, THOMAS A. (1987), TROOK, WEEKATTEIRHO Assistant Professor of Marketing B.A., University of California, Davis; M.B.A., California State University, Sacramento; Ph.D., Arizona State University College, MAN COTEL NEW ONAWN, UHO

BUCUZZO, JOSEPH J. (1970), Commond to toesslord Associate Professor of Mathematics B.S., M.A., University of Massachusetts; Ph.D., University of Notre Dame

BUESO, ALBERTO T. (1974), Professor of Finance B.S., University of Illinois; M.B.A., California State University, Fullerton; Ph.D., University of Texas

BURGMEIER, ARLENE M. (1986), H. HAHDIM 39A.D Director, American Language Program B.A., University of California, Los Angeles; M.A. California State University, Long Beach

CLAPPER, RONALD E. (1971), (1971), HASAL BURK, JACK H. (1971), Professor of Biological Science B.S., Fort Lewis College; Ph.D., New Mexico State University state of the valenting, G. A.M., A.B.

BURROWES, CARL (1990), (1984) A WHOL , STERAL Lecturer in Commuications B.A., Howard University; M.A., Syracuse University; Ph.D., Temple University

BUZAN, BERT C. (1976), O MMAOL SLIEW-JETMAO Professor of Political Science B.A., M.A., Ph.D., University of Texas at Austin

CARTLEDGE, SAMUEL A. (1984), Director of Public Safety B.A., M.P.A., California State University, Fullerton

CALHOUN, FENTON E. (1970), M PIONAST YSCAO Associate Professor of Communications B.A., Michigan State University; M.A., Ph.D., Wayne University of Southern California, Party Visited Visit

CALLISON, WILLIAM L. (1974), Professor of Educational Administration POWALETTRAD B.A., Occidental College; Ph.D., Stanford University

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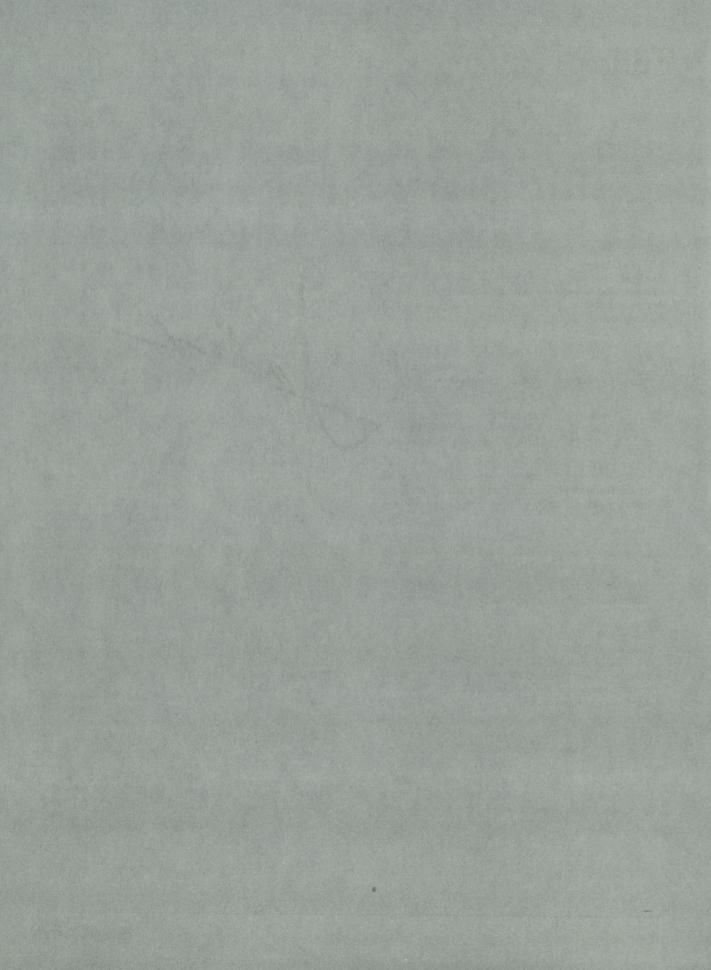
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